Commonwealth of Kentucky
Environmental and Public Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382

Proposed

AIR QUALITY PERMIT

Issued under 401 KAR 52:020

Permittee Name:	**Central Manufacturing Company / Central Light Alloy**
Mailing Address:	**125 Wheat Drive, Paris KY 40361**
Source Name:	**Central Manufacturing Company / Central Light Alloy**
Mailing Address:	**Same as above**
Source Location:	**125 Wheat Drive, Paris KY 40361**
Permit Number:	**V-05-065**
Source A. I. #:	**290**
Activity #:	**APE19980002**
Review Type:	**Operating**
Source ID #:	**21-017-00025**
Regional Office:	**Frankfort Regional Office 643 Teton Trail, STE B Frankfort, KY 40601-1758 (502) 564 - 3358**
County:	**Bourbon**
Application Complete Date:	**February 16, 2000**
Issuance Date:	**April 21, 2006**
Revision Date:	
Expiration Date:	**April 21, 2011**

John S. Lyons, Director
Division for Air Quality

Revised 12/09/02

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first submitting a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS

01 (E-1) **Boiler (B2)**
Description: Cleaver Brooks, CB 700-500, Process Heat Boiler
Rated Capacity: 20.95 fuel input (mmBTU/hr)
Fuel: Natural Gas
Date Installed: December, 1987

APPLICABLE REGULATIONS:
Regulation 401 KAR 59:015, New Indirect Heat Exchangers applicable to an emission unit with a capacity less than 250 MMBTU per hour and commenced on or after April 9, 1972.

40 CFR 63 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Subpart DDDDD)

1. Operating Limitations:
The affected facility shall be operated so as not to exceed the emission limitations in Section B.2.

2. Emission Limitations:
A. 59:015, § 4(1)(c): Particulate emissions shall not exceed 0.47 lb/mmBTU
B. 59:015, § 4(2): Visible emissions shall not exceed 20% opacity
C. 59:015, § 5(1)(c): Sulfur dioxide emissions shall not exceed 2.21 lb/mmBTU
D. Synthetic Minor Limit on VOC emissions. See Section D(4).

Compliance Demonstration Method: The unit is considered to be in compliance with the particulate, sulfur dioxide and opacity standards while burning pipeline quality natural gas.

3. Testing Requirements: None

4. Specific Monitoring Requirements:
The source wide volume of natural gas burned shall be monitored on a monthly basis.

5. Specific Recordkeeping Requirements:
Records shall be maintained of the source wide volume of natural gas burned.

6. Specific Reporting Requirements: None

7. Specific Control Equipment Operating Conditions: None

8. Alternate Operating Scenarios: None

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

CMC Paint Line				
Emission Point Number	**Description/Process Equipment**	**Date Installed**	**Control Equipment**	**Applicable Regulations**
02 (V18)	Steel Paint Mix Room / Circulation tanks, Solvent tanks, Process and Handling Operations	1987		KAR 59:225 Subpart MMMM
03 (B-4)	Parts Cleaning / Thirteen Stage Parts Washer	11/1987		
04 (B-5)	E-Coat Painting	12/1987		KAR 59:225
05 (B-5A)	Setting Zone / Water Spray	12/1987		
06 (B-6)	E-Coat Cure Oven / 5.1 MM BTU/hr Gas Fired Oven	11/1987	Regenerative Thermal Oxidizer ID No. RTO-2	KAR 59:225 Subpart MMMM
07 (B-8)	Top Coat Booth / 2 reciprocating sprayers with 3 spray guns and 4 robot spray guns	1987	3 Stage Over Spray Filters	KAR 59:010 KAR 59:225 Subpart MMMM
08 (B-9)	Paint Cure Oven / 5.1 MM BTU/hr Gas Fired Oven	12/1987	Regenerative Thermal Oxidizer ID No. RTO-2	KAR 59:225 Subpart MMMM
09 (B-12)	Repair Booth / Single manual applicator / Electric Cure Oven	1987	Single Stage Over Spray Filter	KAR 59:010 KAR 59:225 Subpart MMMM

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations.
401 KAR 59:225, New miscellaneous metal parts and products surface coating operations.
401 KAR 63:002: 40 CFR Part 63 national emission standards for hazardous air pollutants; 40 CFR 63.3880 to 63.3981 (Subpart MMMM), Surface Coating of Miscellaneous Metal Parts and Products. The initial compliance period for an existing affected source begins January 2, 2007.

1. Operating Limitations:

A. The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.
B. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.
C. The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

2. Emission Limitations:

A. 401 KAR 59:010 § 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.
B. 401 KAR 59:010 § 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed the emission rate determined by the following equation: E = 3.59 x (P)^(0.62)
Where,
E = Emission rate in pounds per hour.
P = Process weight rate to the affected facility in tons per hour.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations (Continued**):**

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

(a) In the separation of the air contaminant from the process materials; or

(b) In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation**.**

If $P \leq 0.50$ tons per hour, then $E = 2.34$ pounds per hour.

Compliance Demonstration Method:

Compliance with the opacity and mass standards shall be demonstrated by adhering to the monitoring, record keeping and operating requirements specified in B(4), B(5) and B(7) below. **Emission Point No. 09 (Repair Booth)** shall be considered in compliance with the opacity and mass standards when the conditions of **Operating Limitation C** are met.

C. 401 KAR 59:225 § 6(1)(b) – An affected facility shall be exempt from the provisions of Section 3 of this administrative regulation if the VOC content of the coating is less than 0.42 kg/l of coating (three and five-tenths (3.5) lb/gal), excluding water or exempt solvent or both, delivered to applicators associated with air or forced air-dried items or items subject to outdoor or harsh exposure or extreme environmental conditions.

Compliance Demonstration Method:

The permittee shall maintain records of the VOC content of coatings, thinners and/or other additives for the purpose of calculating the VOC content of the coating as applied.

D. **Synthetic Minor Limit on VOC emissions. See Section D(4)**.

3. Testing Requirements:

A. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

B. The permittee shall conduct performance tests to the determine capture efficiency and destruction efficiency of RTO No.2 according to the standards and schedule specified in the Periodic Monitoring Requirements table.

4. Specific Monitoring Requirements:

A. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

B. A qualitative visual observation of the opacity of emissions shall be performed from each stack of **Emission Point No. 07 (Topcoat Booth)** on a weekly basis and a log of the observations maintained when the unit is operating. If visible emissions from the stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

C. The pressure drop of the three stage filter system shall be monitored daily.

D. A visual inspection of the three stage filter system shall be conducted daily.

E. The permittee shall conform to the monitoring requirements, as prescribed in the Periodic Monitoring Requirements table.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Specific Recordkeeping Requirements:

A. The permittee shall conform to the record keeping requirements, as prescribed in the Periodic Monitoring Requirements table.

B. In addition, for all required emissions control equipment, the permittee shall keep the following records:

1. Design and/or manufacturer's specifications.
2. Preventive maintenance records related to performance of control equipment.
3. All periods, during normal operating conditions, where parameters listed in the periodic monitoring requirements table are "out of standard". The "out of standard" specification for the RTO is defined as a confirmed three-hour period during which the average of the monitored values fails to meet the specified temperature requirements.
4. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is not operating.
5. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is bypassed.
6. Description of operating, temperature-measuring devices (e.g., automatic strip charts, digital data acquisition systems).
7. Data from the temperature-measuring devices (as prescribed by the periodic monitoring requirements table) and any temporary data logged manually as back up.
8. Inspection reports and maintenance performed in response to recommendations in inspection reports.
9. Monitoring system malfunctions.
10. Corrective actions taken in response to "out of standard" conditions as specified in the periodic monitoring requirements table
11. Calibration records for monitoring equipment specified in the periodic monitoring requirements table.

C. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.

D. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.

E. Records of the weekly qualitative visual observation shall be maintained.

F. Records of the pressure drop for the first and second stage filters located on the ground level shall be maintained.

G. Records of the pressure drop for the third stage filters on the roof shall be maintained.

H. Records of the VOC content of coatings as applied shall be maintained.

6. Specific Reporting Requirements:

The reporting requirement in Section F(5) shall be modified to include only the following:

A. A detailed calculation spreadsheet that contains the usage of coatings, thinners, other additives, and their VOC content. The spreadsheet should contain any capture and control efficiency used and the total VOC emissions emitted.

B. A summary of the monitoring in **4. Specific Monitoring Requirements, B – D**.

C. A summary of the monitoring requirements specified in the Periodic Monitoring Requirements table and the records required by **5. Specific Record Keeping Requirements, B (1 – 11)**.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements (Continued):

D. See Section F(7) and F(8) for further reporting requirements.

7. Specific Control Equipment Operating Conditions:

A. The following conditions shall apply to assure compliance with **Emission Limitations A and B** for **Emission Point No. 7 (Topcoat Booth):**

1. Filters shall be in place at all times when a machine is applying coating.
2. Filters shall be replaced when determined to be inefficient (as determined through visual inspection or pressure drop).
3. The units shall be operated and maintained in accordance with the manufacturer's recommendations unless otherwise allowed in this permit.

B. The following conditions shall apply to assure compliance with **Emission Limitation C** for the **Emission Point No. 6 & 8 (E-Coat Oven / Paint Cure Oven)** Regenerative Thermal Oxidizer (RTO) No. 2.

1. The average combustion chamber temperature in any 3-hour period shall not fall more than 28°C (50°F) below the combustion temperature limit established during the most recent performance test, which demonstrated compliance.
2. The permittee shall use the data collected during the performance test to calculate and record the average combustion temperature. This average combustion temperature is the minimum set point for the RTO. The minimum-operating limit for the RTO is 28°C (50°F) below the minimum set point temperature.

Compliance Demonstration Method:

The permittee must monitor the temperature in the firebox of the RTO or immediately downstream of the firebox before any substantial heat exchange occurs. Compliance shall be demonstrated by monitoring and recording the combustion temperature as required in the Periodic Monitoring Requirements table, averaged over 3 hours.

8. Alternate Operating Scenarios:

None

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Periodic Monitoring Requirements – RTO No. 2

Emission Unit	Operation	Equipment Monitored	Characteristic Monitored	Parameter Monitored	Method or Device	Monitoring Frequency	Recording Frequency	Calibration Frequency	Standard Range
N/A	N/A	None	Opacity						See Section B.4.
06/08	B-6 & B-9	RTO – No. 2	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.
06/08	B-6 & B-9	RTO – No. 2	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
06/08	B-6 & B-9	RTO – No. 2	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years*	Every 5 Years	Each Test	DRE > 85%
06/08	B-6 & B-9	RTO – No. 2	Carry Over Efficiency	VOC Collected	TBD**				
06/08	B-6 & B-9	RTO – No. 2	Capture Efficiency	VOC Collected	See Subpart MMMM, §§ 63.3960(b)(1) and 63.3965	TBD***	TBD**	TBD**	TBD**
06/08	B-6 & B-9	RTO – No. 2	RTO Collection	By-Pass Damper Position (confirmation)	Visual	Weekly	Weekly	N/A	Correct Position

* The initial performance test for the purpose of compliance with Subpart MMMM must be conducted no later than January 2, 2007.

**The carry over of VOC emissions from coating operations to the cure ovens must be determined by test methods or engineering evaluations approved by the Division no later than January 2, 2007.

***To be determined depending on compliance method from §63.3965 selected. The Initial performance test for the purpose of compliance with Subpart MMMM must be conducted no later than January 2, 2007.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

10 (EB-1) **Boiler (B1-A)**
Description: Cleaver Brooks, CB 700-350, Process Heat Boiler
Rated Capacity: 14.65 fuel input (mmBTU/hr)
Fuel: Natural Gas
Date Installed: November, 1995

APPLICABLE REGULATIONS:
Regulation 401 KAR 59:015, New Indirect Heat Exchangers applicable to an emission unit with a capacity less than 250 MMBTU per hour and commenced on or after April 9, 1972.

Regulation 401 KAR 60:005, incorporating by reference Regulation 40 CFR 60, Subpart Dc, Standards of performance for small industrial-commercial-institutional steam generating units, for units less than or equal to 100 MMBTU/hour but greater than or equal to 10 MMBTU/hour commenced after June 9, 1989.

40 CFR 63 National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters (Subpart DDDDD)

1. Operating Limitations:
The affected facility shall be operated so as not to exceed the emission limitations in Section B.2.

2. Emission Limitations:
A. 59:015, § 4(1)(c): Particulate emissions shall not exceed 0.41 lb/mmBTU
B. 59:015, § 4(2): Visible emissions shall not exceed 20% opacity
C. Subpart Dc, §60.42c(d): Sulfur dioxide emissions shall not exceed 0.50 lb/MMBTU
D. **Synthetic Minor Limit on VOC emissions. See Section D(4).**

Compliance Demonstration Method: The unit is considered to be in compliance with the particulate, sulfur dioxide and opacity standards when burning pipeline quality natural gas.

3. Testing Requirements: None

4. Specific Monitoring Requirements:
The source wide volume of natural gas burned shall be monitored monthly.

5. Specific Recordkeeping Requirements:
Records of the source wide volume of natural gas burned shall be maintained.

6. Specific Reporting Requirements: None

7. Specific Control Equipment Operating Conditions: None

8. Alternate Operating Scenarios: None

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

CLA Melting and Casting				
Emission Point Number	**Description/Process Equipment**	**Date Installed**	**Control Equipment**	**Applicable Regulations**
11 (MF-002)	Melting Furnace (SP) #2/Canefco Ltd. Reverberating Furnace (7.2 Metric Ton Capacity)	July, 1993	Baghouse/Wheelabrator Model 3015 TA-SB 120 (ID No. EX-1)	401 KAR 53:010 401 KAR 59:010
12 (DG-001)	Degasser #1/Hoseko Japan	May, 1990	Baghouse/Wheelabrator Model 3015 TA-SB 120 (ID No. EX-1)	401 KAR 53:010 401 KAR 59:010
13 (DG-002)	Degasser #2/Hoseko Japan	May, 1990	Baghouse/Wheelabrator Model 3015 TA-SB 120 (ID No. EX-1)	401 KAR 53:010 401 KAR 59:010
14 (MF-003)	Melting Furnace #3/Lindberg/MPH Model No. 62-ARP 6000	May, 2002		401 KAR 53:010 401 KAR 59:010
15 (DG-0030)	Degasser #3/Hoseko Japan	May, 2002		401 KAR 53:010 401 KAR 59:010
16 (HF-001)	Holding Furnace #1/Mitsubishi, Crucible Electric	May, 1990		401 KAR 59:010
17 (HF-002)	Holding Furnace #2/Mitsubishi, Crucible Electric	May, 1990		401 KAR 59:010
18 (HF-003)	Holding Furnace #3/Mitsubishi, Crucible Electric	May, 1990		401 KAR 59:010
19 (HF-004)	Holding Furnace #4/Mitsubishi, Crucible Electric	May, 1990		401 KAR 59:010
20 (HF-005)	Holding Furnace #5/Mitsubishi, Crucible Electric	June, 1990		401 KAR 59:010
21 (HF-006)	Holding Furnace #6/Mitsubishi, Crucible Electric	June, 1990		401 KAR 59:010
22 (HF-007)	Holding Furnace #7/Mitsubishi, Crucible Electric	June, 1990		401 KAR 59:010
23 (HF-008)	Holding Furnace #8/Mitsubishi, Crucible Electric	June, 1990		401 KAR 59:010

APPLICABLE REGULATIONS:
401 KAR 53:010, Ambient air quality standards.
401 KAR 59:010, New process operations.
401 KAR 63:020, Potentially hazardous matter or toxic substances.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations:

A. The usage rates fluxes and other raw materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.

B. Melt Furnace No. 2 and the Degassers No. 1 & 2 baghouse (EX-1) shall be maintained in accordance with the manufacturer's recommendations.

C. The pressure drop in the baghouse (EX-1) shall be in the range recommended by the manufacturer.

D. The baghouse (EX-1) shall be operated when Melt Furnace No. 2 is operated.

E. The baghouse (EX-1) shall be operated when Degassers No. 1 & 2 are in operation.

2. Emission Limitations:

A. 401 KAR 63:020 § 3 – No owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants.

B. 401 KAR 53:010 § 1(Appendix A) – Gaseous fluorides emissions shall not exceed the ambient air quality standards.

Compliance Demonstration Method:

See Section D(5) for 63:020 compliance requirements. Compliance with 53:010 shall be assumed when compliance with 63:020 is demonstrated.

C. 401 KAR 59:010 § 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.

D. 401 KAR 59:010 § 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed the emission rate determined by the following equation: E = 3.59 x (P)^(0.62)

Where,

E = Emission rate in pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

(a) In the separation of the air contaminant from the process materials; or

(b) In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation**.**

If $P \leq 0.50$ tons per hour, then E = 2.34 pounds per hour.

D. **Synthetic Minor Limit on VOC emissions. See Section D(4).**

Compliance Demonstration Method:

Compliance with the opacity and mass standards shall be demonstrated by adhering to the monitoring, record keeping and operating requirements specified in B(4), B(5) and B(7) below.

3. Testing Requirements:

A. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

3. Testing Requirements (Continued**):**

B. A performance test shall be conducted to determine particulate matter emissions from Melt Furnace No. 3 (MF-003) utilizing EPA Method 5. The performance test shall be conducted within 360 days of issuance of this permit. See Section F(11) and G(a)(17).

4. Specific Monitoring Requirements:

A. The permittee shall monitor flux usages as necessary to demonstrate compliance with all requirements of this permit.

B. A qualitative visual observation of the opacity of emissions shall be performed from each stack on a weekly basis and a log of the observations maintained when the unit is operating. If visible emissions from the stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

C. The pressure of the baghouse control equipment serving Melt Furnace No. 2 and Degassers No. 1 & 2 shall be monitored daily.

5. Specific Recordkeeping Requirements:

A. Monthly records of flux usages in the melt furnaces, degassers and holding furnaces shall be maintained.

B. Records of the weekly qualitative visual observations shall be maintained.

C. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.

D. Records of the pressure drop for the baghouse (EX-1) shall be maintained.

E. All maintenance that is required for compliance demonstration of Operating Limitation B shall be recorded and include date and time.

F. All deviations from Operating Limitations D and E shall be recorded and include date and time.

6. Specific Reporting Requirements:

As part of compliance demonstration for Emission Limitations A, B, C and D, reporting requirement 5 in Section F shall be modified to require only a summary of the following:

A. A summary of the monthly usage of fluxes in the melt furnaces, degassers and holding furnaces;

B. Operating pressure measurements during the period for the baghouse (EX-1) (maximum and minimum);

C. The manufacturer's recommended operating pressure range for the baghouse (EX-1);

D. Any filter replacements during the period;

E. The weekly log of qualitative visual observations of opacity;

F. And any other deviations from permit requirements for these emission points during the period.

This shall be done every 6 months and certified by a responsible official as specified in Section F requirement 5. See reporting requirements 6, 7, and 8 from Section F for additional reporting requirements.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

7. Specific Control Equipment Operating Conditions:
See **1. Operating Limitations** above.

8. Alternate Operating Scenarios:
None

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

CLA 083, 084 & 085 Machining Departments				
Emission Point Number	**Description/Process Equipment**	**Date Installed**	**Control Equipment**	**Applicable Regulations**
24 (SB-001, SB-002, SB-003)	Shot Blasters	10/1998	Baghouse	KAR 59:010
25 (BRS-001 – BRS-006)	Brush Debur	10/1998	Dust Collector	KAR 59:010

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations.

1. Operating Limitations:

A. The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.
B. The dust control systems shall be operated during blasting and deburring.
C. The dust control systems shall be maintained in accordance with manufacturer's recommendations.
D. Pressure drop in the dust control devices during blasting and deburring shall be in the range recommended by the manufacturer.

2. Emission Limitations:

A. 401 KAR 59:010 § 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.
B. 401 KAR 59:010 § 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed 2.34 pounds per hour.

Compliance Demonstration Method:
Compliance with the above emission limitations may be assumed given compliance with Operating Limitations A - D and the Monitoring, Record Keeping, and Reporting requirements specified in B(4), B(5) and B(6) below.

3. Testing Requirements:

Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4. In addition, once a calendar year, EPA Reference Method 9 or equivalent reading shall be performed.

4. Specific Monitoring Requirements:

A. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.
B. Pressure change readings for the dust collection systems shall be made at least once per week when blasting and/or deburring is being done for the purpose of verifying compliance with Operating Limitation D.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. **Specific Recordkeeping Requirements:**

A. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.
B. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.
C. The dust collection system's pressure drops shall be recorded once per week when the units are operating.
D. All maintenance that is required for compliance demonstration of **Operating Limitation C** shall be recorded and include date and time.
E. All deviations from **Operating Limitation B** shall be recorded and include date and time.

6. **Specific Reporting Requirements:** As part of compliance demonstration for **Emission Limitations A and B**, reporting requirement 5 in Section F shall be modified to require only a summary of the following:

A. Operating pressure measurements during the period for the dust collection systems (maximum and minimum);
B. The manufacturer's recommended operating pressure range for the dust collection systems;
C. Any filter replacements during the period;
D. The results of the most recent Method 9 reading;
E. And any other deviations from permit requirements for this emission point during the period.

This shall be done every 6 months and certified by a responsible official as specified in Section F requirement 5. See reporting requirements 6, 7, and 8 from Section F for additional reporting requirements.

7. **Specific Control Equipment Operating Conditions:** See Operating Limitations above.

8. **Alternate Operating Scenarios:** N/A

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

CLA 067 Paint Line				
Emission Point Number	**Description/Process Equipment**	**Date Installed**	**Control Equipment**	**Applicable Regulations**
26 (L1A, L1B, L1C)	Aluminum Paint Pretreatment System L1/ 10 Stage Parts Washer and Chromate System	10/1998	Duall Fume Scrubber	KAR 59:010
27 (L2)	Aluminum Pretreatment Dry Off Oven / 1.6 MMBTU/HR NG	10/1998		
28 (LCC)	Aluminum CLA Powder Paint LCC	10/1998		KAR 59:010
29 (FUG)	Aluminum Paint Pretreatment Chromate Process Water Treatment Line	10/1998		KAR 59:010
30 (L10)	Aluminum Paint Mix Room	1998		KAR 59:225 Subpart MMMM
31 (LC1)	Color Coat Booth / 5 air atomized spray guns	10/1998	2 Stage Over Spray Filters/Regenerative Thermal Oxidizer ID No. RTO-1	KAR 59:010 KAR 59:225 Subpart MMMM
32 (L5A)	Color Bake Oven / 5.0 MM BTU/hr NG Fired Oven	10/1998	Regenerative Thermal Oxidizer ID No. RTO-1	KAR 59:225 Subpart MMMM
33 (LC2)	Edge Clear Coat Booth / 4 air atomized spray guns	10/1998	2 Stage Over Spray Filters/Regenerative Thermal Oxidizer ID No. RTO-1	KAR 59:010 KAR 59:225 Subpart MMMM
34 (LC3)	Top Clear Booth / 5 air atomized spray guns	10/1998	2 Stage Over Spray Filters/Regenerative Thermal Oxidizer ID No. RTO-1	KAR 59:010 KAR 59:225 Subpart MMMM
35 (L9A)	Clear Bake Oven / 6.0 MM BTU/hr NG Fired Oven	10/1998	Regenerative Thermal Oxidizer ID No. RTO-1	KAR 59:225 Subpart MMMM
36 (L7A)	Powder Bake Oven / 6.0 MM BTU/hr NG Fired Oven	10/1998		

APPLICABLE REGULATIONS:

401 KAR 59:010, New process operations.

401 KAR 59:225, New miscellaneous metal parts and products surface coating operations.

401 KAR 63:002: 40 CFR Part 63 national emission standards for hazardous air pollutants; 40 CFR 63.3880 to 63.3981 (Subpart MMMM), Surface Coating of Miscellaneous Metal Parts and Products. The initial compliance period for an existing affected source begins January 2, 2007.

1. Operating Limitations:

A. The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.

B. Wherever practicable, the permittee should utilize work practices to minimize emissions from non-process cleaning activities.

C. The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations:

A. 401 KAR 59:010 § 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.

B. 401 KAR 59:010 § 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed the emission rate determined by the following equation: E = 3.59 x (P)^(0.62)

Where,

E = Emission rate in pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

a. In the separation of the air contaminant from the process materials; or
b. In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation**.**

If P ≤ 0.50 tons per hour, then E = 2.34 pounds per hour.

Compliance Demonstration Method:

Compliance with the opacity and mass standards shall be demonstrated by adhering to the monitoring, record keeping and operating requirements specified in B(4), B(5) and B(7) below.

C. 401 KAR 59:225 § 3 – No person shall cause, allow, or permit an affected facility to discharge into the atmosphere more than fifteen (15) percent by weight of the VOCs net input into the affected facility.

D. **Synthetic Minor Limit on VOC emissions. See Section D(4)**.

Compliance Demonstration Method:

The permittee shall maintain records of the VOC content of coatings, thinners and/or other additives for the purpose of calculating the VOC content of the coating as applied. The permittee shall adhere to the monitoring, record keeping and operating requirements in B(4), B(5) and B(7) below.

3. Testing Requirements:

A. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

B. The permittee shall perform destruction efficiency testing and capture efficiency testing for RTO No. 1 according to the standards and schedule specified in the Periodic Monitoring Requirements table.

4. Specific Monitoring Requirements:

A. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements (Continued**):**

B. A qualitative visual observation of the opacity of emissions shall be performed from each stack of **Emission Point No. 31, 33 & 34 (Color Coat Booth & Clear Coat Booths)** on a weekly basis and a log of the observations maintained when the units are operating. If visible emissions from the stack(s) are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

C. The pressure drop of the two stage filter system shall be monitored daily.

D. A visual inspection of the two stage filter system shall be conducted daily.

E. The permittee shall conform to the monitoring requirements, as prescribed in the Periodic Monitoring Requirements table.

5. Specific Recordkeeping Requirements:

A. The permittee shall conform to the record keeping requirements, as prescribed in the Periodic Monitoring Requirements table.

B. In addition, for all required emissions control equipment, the permittee shall keep the following records:

1. Design and/or manufacturer's specifications.
2. Preventive maintenance records related to performance of control equipment.
3. All periods, during normal operating conditions, where parameters listed in the periodic monitoring requirements table are "out of standard". The "out of standard" specification for the RTO is defined as a confirmed three-hour period during which the average of the monitored values fails to meet the specified temperature requirements.
4. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is not operating.
5. All periods, during normal operating conditions, where emissions control equipment, required by this permit, is bypassed.
6. Description of operating, temperature-measuring devices (e.g., automatic strip charts, digital data acquisition systems).
7. Data from the temperature-measuring devices (as prescribed by the periodic monitoring requirements table) and any temporary data logged manually as back up.
8. Inspection reports and maintenance performed in response to recommendations in inspection reports.
9. Monitoring system malfunctions.
10. Corrective actions taken in response to "out of standard" conditions as specified in the periodic monitoring requirements table
12. Calibration records for monitoring equipment specified in the periodic monitoring requirements table.

C. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.

D. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.

E. Records of the weekly qualitative visual observation shall be maintained.

F. Records of the pressure drop for the over spray filters shall be maintained.

G. Records of the VOC content of coatings as applied shall be maintained.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

The reporting requirement in Section F.5 shall be modified to include only the following:

A. A detailed calculation spreadsheet that contains the usage of coatings, thinners, other additives, and their VOC content. The spreadsheet should contain any capture and control efficiency used and the total VOC emissions emitted.

B. A summary of the monitoring in **4. Specific Monitoring Requirements, B – D**.

C. A summary of the monitoring requirements specified in the Periodic Monitoring Requirements table and the records required by **5. Specific Record Keeping Requirements, B (1 – 11)**.

D. See Section F.7 and F.8 for further reporting requirements.

7. Specific Control Equipment Operating Conditions:

A. The following conditions shall apply to assure compliance with **Emission Limitations A and B** for **Emission Point No. 31, 33 & 34 (Color Coat Booth & Clear Coat Booths):**

1. Filters shall be in place at all times when a machine is applying coating.
2. Filters shall be replaced when determined to be inefficient (as determined through visual inspection or pressure drop).
3. The units shall be operated and maintained in accordance with the manufacturer's recommendations unless otherwise allowed in this permit.

B. The following conditions shall apply to assure compliance with **Emission Limitation C** for **Emission Point No. 31, 32, 33, 34, and 35 (Color Coat Booth, Color Bake Oven, Edge Clear Coat Booth, Top Clear Booth and Clear Bake Oven):** Regenerative Thermal Oxidizer (RTO) No. 1.

1. The average combustion chamber temperature in any 3-hour period shall not fall more than 28°C (50°F) below the combustion temperature limit established during the most recent performance test, which demonstrated compliance.
2. The permittee shall use the data collected during the performance test to calculate and record the average combustion temperature. This average combustion temperature is the minimum set point for the RTO. The minimum-operating limit for the RTO is 28°C (50°F) below the minimum set point temperature.

Compliance Demonstration Method:

The permittee must monitor the temperature in the firebox of the RTO or immediately downstream of the firebox before any substantial heat exchange occurs. Compliance shall be demonstrated by monitoring and recording the combustion temperature as required in the Periodic Monitoring Requirements table, averaged over 3 hours.

8. Alternate Operating Scenarios:

None

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Periodic Monitoring Requirements – RTO No. 1

Emission Unit	Operation	Equipment Monitored	Characteristic Monitored	Parameter Monitored	Method or Device	Monitoring Frequency	Recording Frequency	Calibration Frequency	Standard Range
N/A	N/A	None	Opacity						See Section B.4.
31, 32, 33, 34 & 35	LC1, L5A, LC2, LC3 & L9A	RTO – No. 1	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes & Each Occurrence of an Alarm	Annual	Not More Than 28°C Below Last Compliance Test, 3 Hour Avg.
31, 32, 33, 34 & 35	LC1, L5A, LC2, LC3 & L9A	RTO – No. 1	Destruction Efficiency	Burner Temperature	Thermocouple	15 Minutes	15 Minutes	Annual	Setpoint = Average Temperature established during performance test
31, 32, 33, 34 & 35	LC1, L5A, LC2, LC3 & L9A	RTO – No. 1	Destruction Efficiency	VOC In / Out	Stack Test (EPA Method 25A)	Every 5 Years*	Every 5 Years	Each Test	DRE > 85%
31, 32, 33, 34 & 35	LC1, L5A, LC2, LC3 & L9A	RTO – No. 1	Capture Efficiency	VOC collected	See Subpart MMMM, §§ 63.3960(b)(1) and 63.3965	TBD**	TBD**	TBD**	TBD**
31, 32, 33, 34 & 35	LC1, L5A, LC2, LC3 & L9A	RTO – No. 1	RTO Collection	By-Pass Damper Position (confirmation)	Visual	Weekly	Weekly	N/A	Correct Position

* The initial performance test for the purpose of compliance with Subpart MMMM must be conducted no later than January 2, 2007.

**To be determined depending on compliance method from §63.3965 selected. The Initial performance test for the purpose of compliance with Subpart MMMM must be conducted no later than January 2, 2007.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

CLA 068 Paint Line				
Emission Point Number	**Description/Process Equipment**	**Date Installed**	**Control Equipment**	**Applicable Regulations**
37 (DO)	Paint Line Dry-off Oven / 2.0 MM BTU/hr NG fired	01/2003		
38 (PCO)	Powder Coat Oven / 3.5 MM BTU/hr NG fired	01/2003		
39 (LCE, LCF & LCG)	Black Coat Booth / 10 air atomized spray guns	01/2003	2 Stage Over Spray Filters/Thermal Oxidizer ID No. TO-1	KAR 59:010 KAR 59:225 Subpart MMMM
40 (BCO)	Black Coat Oven / 2.0 MM BTU/hr NG fired	01/2003	Thermal Oxidizer ID No. TO-1	KAR 59:225 Subpart MMMM
41 (LCH, LCI & LCJ)	Color Coat Booth / 16 air atomized spray guns	01/2003	2 Stage Over Spray Filters/Thermal Oxidizer ID No. TO-1	KAR 59:010 KAR 59:225 Subpart MMMM
42 (LCK & LCL)	Clear Coat Booth / 10 air atomized spray guns	01/2003	2 Stage Over Spray Filters/Thermal Oxidizer ID No. TO-1	KAR 59:010 KAR 59:225 Subpart MMMM
43 (C&CCO)	Color & Clear Coat Oven / 4.0 MM BTU/hr NG fired	01/2003	Thermal Oxidizer ID No. TO-1	KAR 59:225 Subpart MMMM

APPLICABLE REGULATIONS:
401 KAR 59:010, New process operations.
401 KAR 59:225, New miscellaneous metal parts and products surface coating operations.
401 KAR 63:002: 40 CFR Part 63 national emission standards for hazardous air pollutants; 40 CFR 63.3880 to 63.3981 (Subpart MMMM), Surface Coating of Miscellaneous Metal Parts and Products. The initial compliance period for a new affected source begins January 2, 2004.

1. Operating Limitations:

A. The usage rates of materials used in all affected facilities shall be limited so as not to exceed the emission limitations in Section B.2.

B. The permittee shall adhere to the Work Practice Plan required by § 63.3893. The Work Practice plan shall serve to minimize organic HAP emissions from the storage, mixing, and conveying of coatings, thinners and/or other additives, and cleaning materials used in, and waste materials generated by the coating line. The plan must specify practices and procedures to ensure that, at a minimum, the following elements are implemented:

1. All organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be stored in closed containers.
2. Spills of organic-HAP-containing coatings, thinners and/or other additives, cleaning materials, and waste materials must be minimized.
3. Organic-HAP-containing coatings, thinners and/or other additives, cleaning materials and waste materials must be conveyed from one location to another in closed containers or pipes.
4. Mixing vessels which contain organic-HAP-containing coatings and other materials must be closed except when adding to, removing, or mixing the contents.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

1. Operating Limitations (Continued**):**

5. Emissions of organic HAP must be minimized during cleaning of storage, mixing, and conveying equipment.

C. The permittee shall install, maintain, and operate its control equipment in accordance with manufacturers' recommendations and/or good engineering practice. See **7. Specific Operating Limitations.**

2. Emission Limitations:

A. 401 KAR 59:010 § 3(1) – Visible emissions from a control device or stack associated with any affected facility shall not equal or exceed 20% opacity.

B. 401 KAR 59:010 § 3(2) – Particulate matter emissions from a control device or stack associated with any affected facility shall not equal or exceed the emission rate determined by the following equation: E = 3.59 x (P)^(0.62)

Where,

E = Emission rate in pounds per hour.

P = Process weight rate to the affected facility in tons per hour.

Process Weight: The total weight of all materials introduced into any affected facility which may cause any emission of particulate matter, but does not include liquid and gaseous fuel charged, combustion air, or uncombined water.

Affected Facility: The last operation preceding the emission of air contaminants, which results:

a. In the separation of the air contaminant from the process materials; or
b. In the conversion of the process materials into air contaminants, but does not include an air pollution abatement operation**.**

If P ≤ 0.50 tons per hour, then E = 2.34 pounds per hour.

Compliance Demonstration Method:

Compliance with the opacity and mass standards shall be demonstrated by adhering to the monitoring, record keeping and operating requirements specified in B(4), B(5) and B(7) below.

C. 401 KAR 59:225 § 3 – No person shall cause, allow, or permit an affected facility to discharge into the atmosphere more than fifteen (15) percent by weight of the VOCs net input into the affected facility.

Compliance Demonstration Method:

The permittee shall maintain records of the VOC content of coatings, thinners and/or other additives for the purpose of calculating the VOC content of the coating as applied. The permittee shall adhere to the monitoring, record keeping and operating requirements in B(4), B(5) and B(7) below.

D. Subpart MMMM, § 63.3890

Limit organic HAP emissions to no more than 0.23 kilograms (kg) (1.9 pound (lb)) organic HAP per liter (gal) coating solids used during each 12-month compliance period.

Compliance Demonstration Method:

A. All coatings (as defined in § 63.3981), thinners and/or other additives, and cleaning materials used in the affected source must be included when determining whether the organic HAP emission rate is equal to or less than the above specified emission limit.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

2. Emission Limitations (Continued**):**

B. Demonstrate that, based on the coatings, thinners and/or other additives, and cleaning materials used in the coating line, and the emissions reductions achieved by the emission capture system and add-on control, the organic HAP emission rate for the coating line is less than or equal to the above specified emission limit, calculated as a rolling 12-month emission rate and determined on a monthly basis.

C. Demonstrate that the emission capture system and add-on control device meets the operating limits required in § 63.3892 and specified in **7. Specific Operating Limitations**.

D. Comply with the work practice standards required by § 63.3893 and specified in **1. Operating Limitaion B**.

E. All requirements of § 63.3960 through § 63.3963 must also be met to demonstrate compliance with the emission limits, operating limits, and work practice standards. **See Section D(3)(a).**

F. **Synthetic Minor Limit on VOC emissions. See Section D(4)**.

3. Testing Requirements:

A. Testing shall be conducted at such times as may be required by the Cabinet in accordance with 401 KAR 59:005 § 2(2) and 50:045 § 4.

B. All applicable requirements of §§ 63.3964 to 63.3967 must be met. Destruction efficiency testing for T.O. No. 1 must conducted once every 5 years. **See Section D(3)(b).**

4. Specific Monitoring Requirements:

A. The permittee shall monitor raw material usages as necessary to demonstrate compliance with all requirements of this permit.

B. A qualitative visual observation of the opacity of emissions shall be performed from each stack of **Emission Point No. 39, 41 & 42 (Black Coat Booth, Color Coat Booth & Clear Coat Booth)** on a weekly basis and a log of the observations maintained when the unit is operating. If visible emissions from the stack are seen (not including condensed water vapor within the plume), then the opacity shall be determined by Reference Method 9. If emissions are in excess of the applicable opacity limit, then an inspection shall be initiated of control equipment for all necessary repairs.

C. The pressure drop of the two stage filter system shall be monitored daily.

D. A visual inspection of the two stage filter system shall be conducted daily.

E. All applicable requirements of §63.3968 must be met. **See Section D(3)(c).**

5. Specific Recordkeeping Requirements:

A. All applicable requirements of §§63.3930 and 63.3931 must be met. **See Section D(3)(f).**

B. Records documenting the results of each opacity reading by EPA Reference Method 9 shall be maintained.

B. Records documenting the results of any required inspection and repair, as a result of a recorded opacity over 20% shall be maintained.

D. Records of the weekly qualitative visual observation shall be maintained.

E. Records of the pressure drop for the over spray filters shall be maintained.

F. Records of the VOC content of coatings as applied shall be maintained.

SECTION B -EMISSION POINTS, EMISSION UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

6. Specific Reporting Requirements:

The reporting requirement in Section F.5 shall be modified to include only the following:

A. A detailed calculation spreadsheet that contains the usage of coatings, thinners, other additives, and their VOC content. The spreadsheet should contain any capture and control efficiency used and the total VOC emissions emitted.
B. A summary of the monitoring in **4. Specific Monitoring Requirements, B – D**.
C. All applicable requirements of §63.3920. **See Section D(3)(e).**
D. See Section F.7 and F.8 for further reporting requirements.

7. Specific Control Equipment Operating Conditions:

A. The following conditions shall apply to assure compliance with **Emission Limitations A and B** for **Emission Point No. 39, 41 & 42 (Black Coat Booth, Color Coat Booth & Clear Coat Booth):**
   1. Filters shall be in place at all times when a machine is applying coating.
   2. Filters shall be replaced when determined to be inefficient (as determined through visual inspection or pressure drop).
   3. The units shall be operated and maintained in accordance with the manufacturer's recommendations unless otherwise allowed in this permit.

B. The following conditions shall apply to assure compliance with **Emission Limitations C and D per Table 1 of Subpart MMMM** for **Emission Point No. 39, 40, 41, 42 and 43 (Black Coat Booth, Black Coat Oven, Color Coat Booth, Clear Coat Booth and Color & Clear Coat Oven):**

Thermal Oxidizer (TO) No. 1.

1. The average combustion temperature in any 3-hour period must not fall below the combustion temperature limit established according to §63.3967(a).

Compliance Demonstration Method:

   a. Collect the combustion temperature data according to §63.3968(c);
   b. Reduce the data to 3-hour block averages; and
   c. Maintain the 3-hour average combustion temperature at or above the temperature limit.

Emission Capture System that is a PTE according to §63.3965(a).

2. The direction of the air flow at all times must be into the enclosure; and either
3. The average facial velocity of air through all natural draft openings in the enclosure must be at least 200 feet per minute; or
4. The pressure drop across the enclosure must be at least 0.007 inch H2O, as established in Method 204 of appendix M to 40 CFR part 51.

Compliance Demonstration Method:

   (i) Collect the direction of air flow, and either the facial velocity of air through all natural draft openings according to §63.3968(b)(1) or the pressure drop across the enclosure according to §63.3968(g)(2); and
   (ii) Maintain the facial velocity of air flow through all natural draft openings or the pressure drop at or above the facial velocity limit or pressure drop limit, and maintain the direction of air flow into the enclosure at all times.

8. Alternate Operating Scenarios:

None

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

CMC INSIGNIFICANT ACTIVITIES

Description	Generally Applicable Regulation
Disc Press	
1. Disc Press #1 & #2	401 KAR 59:010
2. Okuma Units #1 - #6	401 KAR 59:010
Assembly Line	
3. Clip Welder (031, 032, 035)	401 KAR 59:010
4. ESAB #1 - #4 (V15A, V15B, V15C, V15D)	401 KAR 59:010
5. #1 Hess 4-Torch (V15D)	401 KAR 59:010
6. #2 Hess 4-Torch (V15E)	401 KAR 59:010
7. Panasonic Welder	401 KAR 59:010
Rim Line	
8. Grotness Beam Welder #1 - #3	401 KAR 59:010
9. Roll Form Units (3 units)	401 KAR 59:010
10. Rim Washer (B12 and B2A)	401 KAR 59:010
11. Leak Testers (8 units)	401 KAR 59:010
Back-up Diesel-fired Generators	
12. Generator 1 (158hp)*	None
13. Generator 2 (343 hp)*	None

CLA INSIGNIFICANT ACTIVITIES

Casting Department	
14. Metal Mold Preheat Ovens (MPO-001, MPO-002)	401 KAR 59:010
15. Die Holding Oven (DF-001, DF-002)	None

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

Description	Generally Applicable Regulation
16. Stalk Preheater (SPR-001, SPR-002)	None
17. Ladle Preheat (LH-001, LH-002, LH-003)	401 KAR 59:010
18. Low Pressure Die Casting (LP-001 – LP-008)	401 KAR 59:010
19. Vacuum Assisted Pressure Casting (VAPC-011 – VAPC020)	401 KAR 59:010
20. OKM Deflash (OKM-001 – OKM-005)	401 KAR 59:010
21. Heat Treat (HT-001 – HT-003)	401 KAR 59:010
Machining Department	
22. First OP Lathe (FNC-001 – FNC-008)	401 KAR 59:010
23. Second OP Lathe (SNC-001 – SNC-008)	401 KAR 59:010
24. Valve Hole, Bolt Hole Drill (TOY-001 – TOY-004)	401 KAR 59:010
25. Parts Washer (LPW-001 – LPW-004)	401 KAR 59:010
26. Leak Tester (LTR-001 – LTR-004)	None
27. CLA Central Coolant System (LCS-001 – LCS-006)	401 KAR 59:010
Die Cleaning & Coating	
28. Metal Mold Die Cleaning Operation (DC-001)	401 KAR 59:010
29. Metal Mold Glass Shot (GS-001 & GS-002)	401 KAR 59:010
30. Die Coating Booths (PB-001 & PB-002)	401 KAR 59:010
067 Paint Line	
31. Surface Cut Lathe (SC-001, SC-002, SC-003)	401 KAR 59:010
32. Surface Cut Lathe (KNG-001)	401 KAR 59:010
33. Parts Washer (LPW-005)	401 KAR 59:010

SECTION C - INSIGNIFICANT ACTIVITIES (CONTINUED)

Description	Generally Applicable Regulation
068 Paint Department	
34. Pre-Rinse	401 KAR 59:010
35. Wash Stage	401 KAR 59:010
36. Pickling Stage	401 KAR 59:010
37. Conversion Stage	401 KAR 59:010
38. Transfer Stage	401 KAR 59:010
39. Surface Cut Lathe (SC-004)	401 KAR 59:010
40. Parts Washer (LPW-006)	401 KAR 59:010
CLA Boiler (B1A) Department	
41. Spectrographic Analysis (TS-001)	None
42. X-Ray Inspection (XR-001)	None

* Insignificant Activities 12 and 13 must not operate more than 500 hours per year per generator verifiable by appropriate records. See Section F.5 and F.6.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.

2. Particulate Matter (PM) and Volatile Organic Compound (VOC) emissions, measured by applicable reference methods, or an equivalent or alternative method specified in 40 C.F.R. Chapter I, or by a test method specified in the state implementation plan shall not exceed the respective limitations specified herein.

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM

The initial compliance demonstration for the initial compliance period must be completed according to the requirements in §§ 63.3941, 63.3951 and 63.3961. The initial compliance period for existing sources begins on January 2, 2007 and ends on January 31, 2008.

Compliant Material Option

The initial compliance demonstration includes the calculations according to § 63.3941 and supporting documentation showing that during the initial compliance period, no coating with an organic HAP content that exceeded the applicable emission limit in § 63.3890 was used, and that no thinners and/or other additives, or cleaning materials that contained organic HAP as determined according to § 63.3941(a) were used.

§ 63.3941 ***Demonstrating initial compliance with the emission limitations***
The compliant material option may be used for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. Either the emission rate without add-on controls option or the emission rate with add-on controls option must be used for any coating operation in the affected source for which this option is not used. To demonstrate initial compliance using the compliant material option, the coating operation or group of coating operations must use no coating with an organic HAP content that exceeds the applicable emission limits in § 63.3890 and must use no thinner and/or other additive, or cleaning material that contains organic HAP as determined according to this section. Any coating operation for which the compliant material option is used, is not required to meet the operating limits or work practice standards required by §§ 63.3892 and 63.3893, respectively. All requirements of this section must be met. Use the procedures in this section on each coating, thinner and/or other additive, and cleaning material in the condition it is when it is received from its manufacturer or supplier and prior to any alteration. It is not necessary to redetermine the organic HAP content of coatings, thinners and/or other additives, and cleaning materials that are reclaimed on-site (or reclaimed off-site, if documentation showing that the exact same materials that were sent off-site were received back) and reused in the coating operation for which the compliant material option is used, provided these materials in their condition as received were demonstrated to comply with the compliant material option.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

§ 63.3941(a) Determine the mass fraction of organic HAP for each material used.
Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during the compliance period by using one of the options in paragraphs (a)(1) through (5) of this section.
(1) *Method 311 (appendix A to 40 CFR part 63).* Method 311 may be used for determining the mass fraction of organic HAP. Use the procedures specified in paragraphs (a)(1)(i) and (ii) of this section when performing a Method 311 test.
(i) Count each organic HAP that is measured to be present at 0.1 percent by mass or more for Occupational Safety and Health Administration (OSHA) defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is measured to be 0.5 percent of the material by mass, it is not necessary to count it. Express the mass fraction of each organic HAP that is counted as a value truncated to four places after the decimal point (*e.g.,* 0.3791).
(ii) Calculate the total mass fraction of organic HAP in the test material by adding up the individual organic HAP mass fractions and truncating the result to three places after the decimal point (*e.g.,* 0.763).
(2) *Method 24 (appendix A to 40 CFR part 60).* Method 24 may be used for coatings to determine the mass fraction of nonaqueous volatile matter. That value may be used as a substitute for the mass fraction of organic HAP. See § 63.3941(a)(2) for further details.
(3) *Alternative Method.* An alternative test method for determining the mass fraction of organic HAP may be used once the Division has approved it. The procedures in §63.7(f) must be followed to submit an alternative test method for approval.
(4) *Information from the supplier or manufacturer of the material.* Information other than that generated by test methods specified in paragraphs (a)(1) through (3) of this section may be relied upon such as manufacturer's formulation data, if it represents each organic HAP that is present at 0.1 percent by mass or more for OSHA-defined carcinogens as specified in 29 CFR 1910.1200(d)(4) and at 1.0 percent by mass or more for other compounds. For example, if toluene (not an OSHA carcinogen) is 0.5 percent of the material by mass, it is not necessary to count it. See § 63.3941(a)(4) for further details.
5) *Solvent blends*. Solvent blends may be listed as single components for some materials in data provided by manufacturers or suppliers. Solvent blends may contain organic HAP which must be counted toward the total organic HAP mass fraction of the materials. When test data and manufacturer's data for solvent blends are not available, the default values for the mass fraction of organic HAP listed in Table 3 or 4 of Subpart MMMM may be used. See § 63.3941(a)(5) for further details.
§ 63.3941 (b) Determine the volume fraction of coating solids for each coating. The volume fraction of coating solids (liters (gal) of coating solids per liter (gal) of coating) must be determined for each coating used during the compliance period by a test, by information provided by the supplier or the manufacturer of the material, or by calculation as specified in paragraphs (b)(1) through (4) of this section. If test results obtained according to paragraph (b)(1) of this section do not agree with the information obtained under paragraph (b)(3) or (4) of this section, the test results will take precedence unless, after consultation, it is demonstrated to the satisfaction of the Division that the formulation data are correct.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

(1) *ASTM Method D2697-86 (Reapproved 1998) or ASTM Method D6093-97 (Reapproved 2003).* ASTM Method D2697-86 (Reapproved 1998), "Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings" (incorporated by reference, see § 63.14), or ASTM Method D6093-97 (Reapproved 2003), "Standard Test Method for Percent Volume Nonvolatile Matter in Clear or Pigmented Coatings Using a Helium Gas Pycnometer) (incorporated by reference, see § 63.14), may be used to determine the volume fraction of coating solids for each coating. Divide the nonvolatile volume percent obtained with the methods by 100 to calculate volume fraction of coating solids.
(2) *Alternative Method.* An alternative test method may be used for determining the solids content of each coating once the Division has approved it. The procedures in § 63.7(f) must be followed to submit an alternative test method for approval.
(3) *Information from the supplier or manufacturer of the material.* The volume fraction of coating solids may be obtained for each coating from the suppler or manufacturer.
(4) *Calculation of volume fraction of coating solids*. The volume fraction of coating solids may be determined using Equation 1 of this section:

$$V_S = 1 - \frac{m_{volatiles}}{D_{avg}} \quad (Eq.1)$$

Where:
V_S = Volume fraction of coating solids, liters (gal) coating per liter (gal) coating.
$m_{volatiles}$ = Total volatile matter content of the coating, including HAP, volatile organic compounds (VOC), water, and exempt compounds, determined according to Method 24 in appendix A of 40 CFR part 60, grams volatile matter per liter coating.
D_{avg} = Average density of volatile matter in the coating, grams volatile matter per liter volatile matter, determined from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see § 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If there is a disagreement between ASTM Method D1475-98 test results and other information sources, the test results will take precedence unless, after consultation it is demonstrated to the satisfaction of the Division that the formulation data are correct.

§ 63.3941(c) Determine the density of each coating. Determine the density of each coating used during the compliance period from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see §63.14), information from the supplier or manufacturer of the material, or specific gravity data for pure chemicals. If there is a disagreement between ASTM Method D1475-98 test results and the supplier's or manufacturer's information, the test results will take precedence unless, after consultation it is demonstrated to the satisfaction of the Division that the formulation data are correct.

§ 63.3941(d) Determine the organic HAP content of each coating. Calculate the organic HAP content, kg (lb) of organic HAP emitted per liter (gal) coating solids used, of each coating used during the compliance period using Equation 2 of this section:

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

$$H_c = \frac{(D_c)(W_c)}{V_s} \quad (Eq.2)$$

Where:
H_c = Organic HAP content of the coating, kg (lb) organic HAP emitted per liter (gal) coating solids used.
D_c = Density of coating, kg (lb) coating per liter (gal) coating, determined according to paragraph (c) of this section.
W_c = Mass fraction of organic HAP in the coating, kg (lb) organic HAP per kg (lb) coating, determined according to paragraph (a) of this section.
V_s = Volume fraction of coating solids, liter (gal) coating solids per liter (gal) coating, determined according to paragraph (b) of this section.

§ 63.3941(e) Compliance demonstration. The calculated organic HAP content for each coating used during the initial compliance period must be less than or equal to the applicable emission limit in § 63.3890; and each thinner and/or other additive, and cleaning material used during the initial compliance period must contain no organic HAP, determined according to paragraph (a) of this section. All records required by §§63.3930 and 63.3931 must be kept. As part of the notification of compliance status required by §63.3910, the coating operation(s) for which the compliant material option is used must be identified and a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because no coatings for which the organic HAP content exceeded the applicable emission limit in § 63.3890 were used and no thinners and/or other additives, or cleaning materials that contained organic HAP were used, where organic HAP content has been determined according to the procedures in paragraph (a) of this section must be submitted.

§ 63.3942 Demonstrating continuous compliance with the emission limitations
§ 63.3942(a) For each compliance period to demonstrate continuous compliance, there must be no coating used for which the organic HAP content (determined using Equation 2 of § 63.3941) exceeds the applicable emission limit in §63.3890, and use no thinner and/or other additive, or cleaning material that contains organic HAP, determined according to § 63.3941(a). A compliance period consists of 12 months. Each month, after the end of the initial compliance period described in §63.3940, is the end of a compliance period consisting of that month and the preceding 11 months.
§ 63.3942(b) If the compliant material option is chosen as the means of complying with the emission limitations, the use of any coating, thinner and/or other additive, or cleaning material that does not meet the criteria specified in paragraph (a) of this section is a deviation from the emission limitations that must be reported as specified in §§ 63.3910(c)(6) and 63.3920(a)(5).
§ 63.3942(c) As part of each semiannual compliance report required by §63.3920, the coating operation(s) for which the compliant material option was used must be identified. If there were no deviations from the applicable emission limit in § 63.3890, submit a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because no coatings were used for which the organic HAP content exceeded the applicable emission limit in § 63.3890 and no thinner and/or other additive, or cleaning material that contained organic HAP, determined according to §63.3941(a) was used.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

§ 63.3942(d) Records must be maintained as specified in §§ 63.3930 and 63.3931.

Emission Rate Without Add-On Controls Option

The initial compliance demonstration includes the calculations according to § 63.3951 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in § 63.3890.

§ 63.3951 ***Demonstrating initial compliance with the emission limitations***
The emission rate without add-on controls option may be used for any individual coating operation, for any group of coating operations in the affected source, or for all the coating operations in the affected source. Either the compliant material option or the emission rate with add-on controls option must be used for any coating operation in the affected source for which this option is not used. To demonstrate initial compliance using the emission rate without add-on controls option, the coating operation or group of coating operations must meet the applicable emission limit in § 63.3890, but is not required to meet the operating limits or work practice standards in §§ 63.3892 and 63.3893, respectively. All requirements of this section must be met. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which the compliant material option or the emission rate with add-on option is used. It is not necessary to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site (or reclaimed off-site, if documentation showing that the exact same materials that were sent off-site were received back) and reused in the coating operation for which the emission rate without add-on controls option is used. If coatings, thinners and /or other additives, or cleaning materials that have been reclaimed on-site are used, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.
§ 63.3951 (a) Determine the mass fraction of organic HAP for each material. Determine the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each month according to the requirements in §63.3941(a).
§ 63.3951 (b) Determine the volume fraction of coating solids. Determine the volume fraction of coating solids (liter (gal) of coating solids per liter (gal) of coating for each coating used during each month according to the requirements in §63.3941(b).
§ 63.3951 (c) Determine the density of each material. Determine the density of each liquid coating, thinner and/or other additive, and cleaning material used during each month from test results using ASTM Method D1475-98, "Standard Test Method for Density of Liquid Coatings, Inks, and Related Products" (incorporated by reference, see § 63.14), information from the supplier or manufacturer of the material, or reference sources providing density or specific gravity data for pure materials. If powder coatings are included in the compliance determination, determine the density of powder coatings, using ASTM Method D5965-02, "Standard Test Methods for Specific Gravity of Coating Powders" (incorporated by reference, see § 63.14), or information from the supplier.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

If there is disagreement between ASTM Method D1475-98 or ASTM Method D5965-02 test results and other such information sources, the test results will take precedence unless, after consultation it is demonstrated to the satisfaction of the Division that the formulation data are correct. If materials are purchased or consumption is monitored by weight instead of volume, it is not necessary to determine the material density. Instead, the material weight may be used in place of the combined terms for density and volume in Equations 1A, 1B, 1C, and 2 of this section.

§ 63.3951 (d) Determine the volume of each material used. Determine the volume (liters) of each coating, thinner and/or other additive, and cleaning material used during each month by measurement or usage records. If materials are purchased or consumption is monitored by weight instead of volume, it is not necessary to determine the volume of each material used. Instead, the material weight may be used in place of the combined terms for density and volume in Equations 1A, 1B, and 1C of this section.

§ 63.3951 (e) Calculate the mass of organic HAP emissions. The mass of organic HAP emissions is the combined mass of organic HAP contained in all coatings, thinners and/or other additives, and cleaning materials used during each month minus the organic HAP in certain waste materials. Calculate the mass of organic HAP emissions using Equation 1 of this section.

$$H_e = A + B + C - R_w \quad (Eq.1)$$

Where:

H_e = Total mass of organic HAP emissions during the month, kg.

A = Total mass of organic HAP in the coatings used during the month, kg, as calculated in Equation 1A of this section.

B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg, as calculated in Equation 1B of this section.

C = Total mass of organic HAP in the cleaning materials used during the month, kg, as calculated in Equation 1C of this section.

R_w = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the month, kg, determined according to paragraph (e)(4) of this section. (A value of zero may assigned to R_w, if the facility does not wish to take credit for this allowance.)

(1) Calculate the kg organic HAP in the coatings used during the month using Equation 1A of this section:

$$A = \sum_{i=1}^{m} (Vol_{c,i})(D_{c,i})(W_{c,i}) \quad (Eq.1A)$$

Where:

A = Total mass of organic HAP in the coatings used during the month, kg.

$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.

$D_{c,i}$ = Density of coating, i, kg coating per liter coating.

$W_{c,i}$ = Mass fraction of organic HAP in the coating, i, kg organic HAP per kg coating.

m = Number of different coatings used during the month.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

(2) Calculate the kg of organic HAP in the thinners and/or other additives used during the month using Equation 1B of this section:

$$B = \sum_{j=1}^{n} (Vol_{t,j})(D_{t,j})(W_{t,j}) \quad (Eq.1B)$$

Where:
B = Total mass of organic HAP in the thinners and/or other additives used during the month, kg.
$Vol_{t,j}$ = Total volume of thinner and/or other additive, j, used during the month, liters.
$D_{t,j}$ = Density of thinner and/or other additive, j, kg per liter.
$W_{t,j}$ = Mass fraction of organic HAP in the thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive.
n = Number of different thinners and/or other additives used during the month.

(3) Calculate the kg organic HAP in the cleaning materials used during the month using Equation 1C of this section:

$$C = \sum_{k=1}^{p} (Vol_{s,k})(D_{s,k})(W_{s,k}) \quad (Eq.1C)$$

Where:
C = Total mass of organic HAP in the cleaning materials used during the month, kg.
$Vol_{s,k}$ = Total volume of cleaning material, k, used during the month, liters.
$D_{s,k}$ = Density of cleaning material, k, kg per liter.
$W_{s,k}$ = Mass fraction of organic HAP in the cleaning material, k, kg organic HAP per kg material.
p = Number of different cleaning materials used during the month.

See §63.3951(e)(4) for details about the determination of R_w.

§ 63.3951(f) Calculate the total volume of coating solids used. Determine the total volume of coating solids used, liters, which is the combined volume of coating solids for all the coatings used during each month, using Equation 2 of this section:

$$V_{st} = \sum_{i=1}^{m} (Vol_{c,i})(V_{s,i}) \quad (Eq.2)$$

Where:
V_{st} = Total volume of coating solids used during the month, liters.
$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.
$V_{s,i}$ = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to §63.3941(b).
m = Number of coatings used during the month.

§ 63.3951(g) Calculate the organic HAP emission rate. Calculate the organic HAP emission rate for the compliance period, kg (lb) organic HAP emitted per liter (gal) coating solids used, using Equation 3 of this section:

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

$$H_{yr} = \frac{\sum_{y=1}^{n} H_e}{\sum_{y=1}^{n} V_{st}} \quad (Eq. 3)$$

Where:
H_{yr} = Average organic HAP emission rate for the compliance period, kg organic HAP emitted per liter coating solids used.
He = Total mass of organic HAP emissions from all materials used during month, y, kg, as calculated by Equation 1 of this section.
Vst = Total volume of coating solids used during month, y, liters, as calculated by Equation 2 of this section.
y = Identifier for months.
n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

§63.3951(h) Compliance demonstration. The organic HAP emission rate for the initial compliance period calculated using Equation 3 of this section must be less than or equal to the applicable emission limit for each subcategory in § 63.3890 or the predominant activity allowed in §63.3890(c). All records required by §§63.3930 and 63.3931 must be kept. As part of the notification of compliance status required by §63.3910, the coating operation(s) for which the emission rate without add-on controls option was used must be identified and a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in §63.3890, determined according to the procedures in this section must be submitted.

§63.3952 ***Demonstrating continuous compliance.***
§63.3952 (a) To demonstrate continuous compliance, the organic HAP emission rate for each compliance period, determined according to §63.3951(a) through (g), must be less than or equal to the applicable emission limit in §63.3890. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.3950 is the end of a compliance period consisting of that month and the preceding 11 months. The calculations in §63.3951(a) through (g) must be performed on a monthly basis using data from the previous 12 months of operation.
§63.3952 (b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.3890, this is a deviation from the emission limitation for that compliance period and must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(6).
§63.3952 (c) As part of each semiannual compliance report required by §63.3920, the coating operation(s) for which the emission rate without add-on controls option was used must be identified.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

If there were no deviations from the emission limitations, a statement that the coating operation(s) was (were) in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.3890, determined according to §63.3951(a) through (g) must be submitted.
§63.3952 (d) Records must be maintained as specified in §§63.3930 and 63.3931.

Emission Rate With Add-On Controls Option

§ 63.3960 (b) ***Existing affected sources.*** The requirements of paragraphs (b)(1) through (3) of this section must be met for an existing affected source.
(1) All emission capture systems, add-on control devices, and CPMS must be installed and operating no later than the applicable compliance date specified in § 63.3883. Except for magnet wire coating operations and solvent recovery systems for which a liquid-liquid material balance is conducted according to § 63.3961(j), a performance test for each capture system and add-on control device must be conducted according to the procedures in §§ 63.3964, 63.3965, and 63.3966 and the operating limits required by § 63.3892 must be established no later than the compliance date specified in § 63.3883 (**January 2, 2007**).
(2) The work practice plan required by § 63.3893 must be developed and implementation started no later than the compliance date specified in § 63.3883.
(3) The initial compliance demonstration for the initial compliance period must be completed according to the requirements of §63.3961. The mass of organic HAP emissions and volume of coating solids used each month must be determined and then the organic HAP emission rate must be calculated at the end of the initial compliance period. The initial compliance demonstration includes the results of emission capture system and add-on control device performance tests conducted according to §§ 63.3964, 63.3965 and 63.3966; results of liquid-liquid material balances conducted according to § 63.3961(j); calculations according to § 63.3961 and supporting documentation showing that during the initial compliance period the organic HAP emission rate was equal to or less than the applicable emission limit in § 63.3890; the operating limits established during the performance tests and the results of the continuous parameter monitoring required by § 63.3968; and documentation of whether a work practice plan was developed and implemented as required by § 63.3893.
§ 63.3960 (c) An initial performance test to determine capture efficiency or destruction efficiency of a capture system or control device may not be required if approval is received from the Division to use the results of a performance test that has been previously conducted on that capture system or control device. Any such previous tests must meet the conditions described in paragraphs (c)(1) through (3) of this section.
(1) The previous test must have been conducted using the methods and conditions specified in this subpart.
(2) Either no process or equipment changes have been made since the previous test was performed or the owner or operator must be able to demonstrate that the results of the performance test, reliably demonstrate compliance despite process or equipment changes.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

(3) Either the required operating parameters were established in the previous test or sufficient data were collected in the previous test to establish the required operating parameters.

§ 63.3961 ***Demonstrating initial compliance***
§ 63.3961 (a) The emission rate with add-on controls option may be used for any coating operation, for any group of coating operations in the affected source, or for all of the coating operations in the affected source. Controlled and uncontrolled coating operations may be included in a group for which this option is used. The compliant material option or the emission rate without add-on controls option must be used for any coating operation in the affected source for which the emission rate with add-on controls option is not used. To demonstrate initial compliance, the coating operation(s) for which the emission rate with add-on controls option is used must meet the applicable emission limitations in §§ 63.3890, 63.3892, and 63.3893. All of the requirements of this section must be met. When calculating the organic HAP emission rate according to this section, do not include any coatings, thinners and/or other additives, or cleaning materials used on coating operations for which the compliant material option or the emission rate without add-on controls option is used. It is not necessary to redetermine the mass of organic HAP in coatings, thinners and/or other additives, or cleaning materials that have been reclaimed on-site (or reclaimed off-site, if documentation showing that the exact same materials that were sent off-site were received back) and reused in the coating operation for which the emission rate without add-on controls option is used. If coatings, thinners and /or other additives, or cleaning materials that have been reclaimed on-site are used, the amount of each used in a month may be reduced by the amount of each that is reclaimed. That is, the amount used may be calculated as the amount consumed to account for materials that are reclaimed.
§ 63.3961 (b) Compliance with operating limits. Except as provided in § 63.3960(a)(4), and except for solvent recovery systems for which a liquid-liquid material balance is conducted according to the requirements of paragraph (j) of this section, continuous compliance must be established and demonstrated during the initial compliance period with the operating limits required by § 63.3892, using the procedures specified in §§ 63.3967 and 63.3968.
§ 63.3961 (c) Compliance with work practice requirements. The work practice plan required by § 63.3893 must be developed, implemented and documented during the initial compliance period as specified in §63.3930.
§ 63.3961 (d) Compliance with emission limits. The procedures in paragraphs (e) through (n) of this section must be followed to demonstrate compliance with the applicable emission limit in §63.3890 for each affected source in each subcategory.
§ 63.3961 (e) Determine the mass fraction of organic HAP, density, volume used, and volume fraction of coating solids. Follow the procedures specified in §63.3951(a) through (d) to determine the mass fraction of organic HAP, density, and volume of each coating, thinner and/or other additive, and cleaning material used during each month; and the volume fraction of coating solids for each coating used during each month.
§ 63.3961 (f) Calculate the total mass of organic HAP emissions before add-on controls. Using Equation 1 of §63.3951, calculate the total mass of organic HAP emissions before add-on controls from all coatings, thinners and/or other additives, and cleaning materials used during each month in the coating operation or group of coating operations for which the emission rate with add-on controls option is used.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

§ 63.3961 (g) Calculate the organic HAP emission reduction for each controlled coating operation. Determine the mass of organic HAP emissions reduced for each controlled coating operation during each month. The emission reduction determination quantifies the total organic HAP emissions that pass through the emission capture system and are destroyed or removed by the add-on control device. Use the procedures in paragraph (h) of this section.

§ 63.3961 (h) Calculate the organic HAP emission reduction for each controlled coating operation not using liquid-liquid material balance. Use Equation 1 of this section to calculate the organic HAP emission reduction for each controlled coating operation using an emission capture system and add-on control device other than a solvent recovery system for which a liquid-liquid material balance is conducted. This calculation applies the emission capture system efficiency and add-on control device efficiency to the mass of organic HAP contained in the coatings, thinners and/or other additives, and cleaning materials that are used in the coating operation served by the emission capture system and add-on control device during each month. Zero efficiency must assumed for the emission capture system and add-on control device for any period of time a deviation specified in §63.3963(c) or (d) occurs in the controlled coating operation, including a deviation during a period of startup, shutdown, or malfunction, unless there is data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Division. Equation 1 of this section treats the materials used during such a deviation as if they were used on an uncontrolled coating operation for the time period of the deviation.

$$H_C = (A_C + B_C + C_C - R_W - H_{UNC})\left(\frac{CE}{100} x \frac{DRE}{100}\right) \quad (Eq.1)$$

Where:

H_C = Mass of organic HAP emission reduction for the controlled coating operation during the month, kg.

A_C = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg, as calculated in Equation 1A of this section.

B_C = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, kg, as calculated in Equation 1B of this section.

C_C = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg, as calculated in Equation 1C of this section.

R_W = Total mass of organic HAP in waste materials sent or designated for shipment to a hazardous waste TSDF for treatment or disposal during the compliance period, kg, determined according to § 63.3951(e)(4). (A value of zero may be assigned to R_W if the facility does not wish to use this allowance.)

H_{UNC} = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in §63.3963(c) and (d) that occurred during the month in the controlled coating operation, kg, as calculated in Equation 1D of this section.

CE = Capture efficiency of the emission capture system vented to the add-on control device, percent. Use the test methods and procedures specified in §§63.3964 and 63.3965 to measure and record capture efficiency.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

DRE = Organic HAP destruction or removal efficiency of the add-on control device, percent. Use the test methods and procedures in §§63.3964 and 63.3966 to measure and record the organic HAP destruction or removal efficiency.

(1) Calculate the mass of organic HAP in the coatings used in the controlled coating operation, kg (lb), using Equation 1A of this section:

$$A_C = \sum_{i=1}^{m} (Vol_{c,i})(D_{c,i})(W_{c,i}) \quad (Eq.1A)$$

Where:
A_C = Total mass of organic HAP in the coatings used in the controlled coating operation during the month, kg.
$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.
$D_{c,i}$ = Density of coating, i, kg per liter.
$W_{c,i}$ = Mass fraction of organic HAP in the coating, i, kg organic HAP per kg coating.
m = Number of different coatings used during the month.

(2) Calculate the mass of organic HAP in the thinners and/or other additives used in the controlled coating operation, kg (lb), using Equation 1B of this section:

$$B_C = \sum_{j=1}^{n} (Vol_{t,j})(D_{t,j})(W_{t,j}) \quad (Eq.1B)$$

Where:
B_C = Total mass of organic HAP in the thinners and/or other additives used in the controlled coating operation during the month, kg.
$Vol_{t,j}$ = Total volume of thinner and/or other additive, j, used during the month, liters.
$D_{t,j}$ = Density of thinner and/or other additive, j, kg per liter.
$W_{t,j}$ = Mass fraction of organic HAP in the thinner and/or other additive, j, kg organic HAP per kg thinner and/or other additive.
n = Number of different thinners and/or other additives used during the month.

(3) Calculate the mass or organic HAP in the cleaning materials used in the controlled coating operation during the month, kg (lb), using Equation 1C of this section:

$$C_C = \sum_{k=1}^{p} (Vol_{s,k})(D_{s,k})(W_{s,k}) \quad (Eq.1C)$$

Where:
C_C = Total mass of organic HAP in the cleaning materials used in the controlled coating operation during the month, kg.
$Vol_{s,k}$ = Total volume of cleaning material, k, used during the month, liters.
$D_{s,k}$ = Density of cleaning material, k, kg per liter.
$W_{s,k}$ = Mass fraction of organic HAP in the cleaning material, k, kg organic HAP per kg material.
p = Number of different cleaning materials used during the month.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

(4) Calculate the mass or organic HAP in the coatings, thinners and/or other additives, and cleaning materials used in the controlled coating operation during deviations specified in §63.3963 (c) and (d), using Equation 1D of this section:

$$H_{UNC} = \sum_{h=1}^{q} (Vol_h)(D_h)(W_h) \quad (Eq.1D)$$

Where:

H_{UNC} = Total mass of organic HAP in the coatings, thinners and/or other additives, and cleaning materials used during all deviations specified in §63.3963 (c) and (d) that occurred during the month in the controlled coating operations, kg.

Vol_h = Total volume of coating, thinner and/or other additive, or cleaning material, h, used in the controlled coating operation during deviations, liters.

D_h = Density of coating, thinner and/or other additives, or cleaning material, h, kg per liter.

W_h = Mass fraction of organic HAP in coating, thinner and/or other additives, or cleaning material, h, kg organic HAP per kg coating.

q = Number of different coatings, thinners and/or other additives, and cleaning materials used.

§63.3961(k) Calculate the volume of coating solids used. Determine the total volume of coating solids used, liters, which is the combined volume of coating solids for all the coatings used during each month in the coating operation or group of coating operations for which the emission rate with add-on controls option is used, using Equation 2 of §63.3951.

$$V_{st} = \sum_{i=1}^{m} (Vol_{c,i})(V_{s,i}) \quad (Eq.2)$$

Where:

V_{st} = Total volume of coating solids used during the month, liters.

$Vol_{c,i}$ = Total volume of coating, i, used during the month, liters.

$V_{s,i}$ = Volume fraction of coating solids for coating, i, liter solids per liter coating, determined according to §63.3941(b).

m = Number of coatings used during the month.

§63.3961(l) Calculate the mass of organic HAP emissions for each month. Determine the mass of organic HAP emissions, kg, during each month, using Equation 4 of this section:

$$H_{HAP} = H_e - \sum_{i=1}^{q} (H_{c,i}) - \sum_{j=1}^{r} (H_{CSR,j}) \quad (Eq.4)$$

where

H_{HAP} = Total mass of organic HAP emissions for the month, kg.

H_e = Total mass of organic HAP emissions before add-on controls from all the coatings, thinners and/or other additives, and cleaning materials used during the month, kg, determined according to paragraph (f) of this section.

$H_{c,i}$ = Total mass of organic HAP emission reduction for controlled coating operation, i, not using a liquid-liquid material balance, during the month, kg, from Equation 1 of this section.

H_{CSRj} = Total mass of organic HAP emission reduction for coating operation, j, controlled by a solvent recovery system using a liquid-liquid material balance, during the month, kg, from Equation 3 of §63.3961(j)(7)

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

q = Number of controlled coating operations not controlled by a solvent recovery system using a liquid-liquid material balance.
r = Number of coating operations controlled by a solvent recovery system using a liquid-liquid material balance.

§63.3961(m) Calculate the organic HAP emission rate for the compliance period. Determine the organic HAP emission rate for the compliance period, kg (lb) of organic HAP emitted per liter (gal) coating solids used, using Equation 5 of this section:

$$H_{annual} = \frac{\sum_{y=1}^{n} H_{HAP,y}}{\sum_{y=1}^{n} V_{st,y}} \quad (Eq.5)$$

Where:
H_{annual} = Organic HAP emission rate for the compliance period, kg organic HAP emitted per liter coating solids used.
$H_{HAP,y}$ = Organic HAP emissions for month, y, kg, determined according to Equation 4 of this section.
$V_{st,y}$ = Total volume of coating solids used during the month, y, liters, from Equation 2 of §63.3951.
y = identifier for months.
n = Number of full or partial months in the compliance period (for the initial compliance period, n equals 12 if the compliance date falls on the first day of a month; otherwise n equals 13; for all following compliance periods, n equals 12).

§63.3961(n) Compliance demonstration. The organic HAP emission rate for the initial compliance period, calculated using Equation 5 of this section, must be less than or equal to the applicable emission limit for each subcategory in §63.3890 or the predominant activity or facility-specific emission limit allowed in §63.3890(c). All records must be kept as required by §§63.3930 and 63.3931. As part of the notification of compliance status required by §63.3910, the coating operation(s) for which the emission rate with add-on controls option is used must be identified and a statement that the coating operation(s) was (were) in compliance with the emission limitations during the initial compliance period because the organic HAP emission rate was less than or equal to the applicable emission limit in §63.3890 must be submitted, and that the operating limits required by §63.3892 and the work practice standards required by §63.3893 were achieved.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

§63.3963 ***Demonstrating continuous compliance with the emission limitations.***
§63.3963 (a) To demonstrate continuous compliance with the applicable emission limit in §63.3890, the organic HAP emission rate for each compliance period, determined according to the procedures in §63.3961, must be equal to or less than the applicable emission limit in §63.3890. A compliance period consists of 12 months. Each month after the end of the initial compliance period described in §63.3960 is the end of a compliance period consisting of that month and the preceding 11 months. The calculations in §63.3961 must be performed on a monthly basis using data from the previous 12 months of operation. See §63.3963 (a) for further details.
§63.3963 (b) If the organic HAP emission rate for any 12-month compliance period exceeded the applicable emission limit in §63.3890, this is a deviation from the emission limitation for that compliance period that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7).
§63.3963 (c) Continuous compliance must be demonstrated with each operating limit required by §63.3892 that applies, as specified in Table 1 of Subpart MMMM, when the coating line is in operation.
(1) If an operating parameter is out of the allowed range specified in Table 1 of Subpart MMMM, this is a deviation from the operating limit that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7).
(2) If an operating parameter deviates from the operating limit specified in Table 1 of Subpart MMMM, then it shall be assumed that the emission capture system and add-on control device were achieving zero efficiency during the time period of the deviation, unless there is other data indicating the actual efficiency of the emission capture system and add-on control device and the use of these data is approved by the Division.
§63.3963 (d) The requirements for bypass lines in §63.3968(b) for controlled coating operations for which a liquid-liquid material balance is not conducted must be met. If any bypass line is opened and emissions are diverted to the atmosphere when the coating operation is running, this is a deviation that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7). For the purposes of completing the compliance calculations specified in §§63.3961(h), the materials used during a deviation on a controlled coating operation must be treated as if they were used on an uncontrolled coating operation for the time period of the deviation as indicated in Equation 1 of §63.3961.
§63.3963 (e) Continuous compliance must be demonstrated with the work practice standards in §63.3893. If a work practice plan was not developed, or the plan was not implemented, or the records required by §63.3930(k)(8) were not kept, this is a deviation from the work practice standards that must be reported as specified in §§63.3910(c)(6) and 63.3920(a)(7).
§63.3963 (f) As part of each semiannual compliance report required in §63.3920, the coating operations(s) for which the emission rate with add-on controls option was used must be identified. If there were no deviations from the emission limitations, a statement that the facility was in compliance with the emission limitations during the reporting period because the organic HAP emission rate for each compliance period was less than or equal to the applicable emission limit in §63.3890, the operating limits required by §63.3892 were achieved and the work practice standards required by §63.3893 were achieved during each compliance period.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. a. Emission Limitations – Compliance Demonstration Method for Subpart MMMM (Continued)

§63.3963 (g) During periods of startup, shutdown, or malfunction of the emission capture system, add-on control device, or coating operation that may affect emission capture or control device efficiency, the facility must operate in accordance with the startup, shutdown, and malfunction plan required by §63.3900(c).
§63.3963 (j) Records must be maintained as specified in §§63.3930 and 63.3931.

3. b. Testing Requirements for Subpart MMMM

§63.3964 ***General requirements for performance tests.***
§63.3964 (a) Each performance test required by §63.3960 must be conducted according to the requirements in §63.7(e)(1) and under the conditions in this section, unless a waiver of the performance test is obtained according to the provisions in §63.7(h).
(1) *Representative coating operation operating conditions*. The performance test must be conducted under representative operating conditions for the coating operation. Operations during periods of startup, shutdown, or malfunction and during periods of nonoperation do not constitute representative conditions. The process information that is necessary to document the operating conditions must be recorded during the test and an explanation of why the conditions represent normal operation must also be included with the records.
(2) *Representative emission capture system and add-on control device operating conditions*. The performance test must be conducted when the emission capture system and add-on control device are operating at a representative flow rate, and the add-on control device is operating at a representative inlet concentration. The necessary information must be recorded to document the emission capture system and add-on control device operating conditions during the test and an explanation of why the conditions represent normal operation must also be included with the records.
§63.3964 (b) Each performance test of an emission capture system must be conducted according to the requirements in §63.3965. Each performance test of an add-on control device must be conducted according to the requirements in §63.3966.
§63.3965 *Determination of the emission capture system efficiency*. The procedures and test methods in this section must be used to determine capture efficiency as part of the performance test required by §63.3960.
§63.3965 (a) ***Assuming 100 percent capture efficiency.*** One-hundred percent capture efficiency may be assumed if both conditions in paragraphs (a)(1) and (2) of this section are met:
(1) The capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and directs all the exhaust gases from the enclosure to an add-on control device.
(2) All coatings, thinners and/or other additives, and cleaning materials used in the coating operation are applied within the capture system; coating solvent flash-off, curing, and drying occurs within the capture system; and the removal or evaporation of cleaning materials from the surfaces they are applied to occurs within the capture system. For example, this criterion is not met if parts enter the open shop environment when being moved between a spray booth and a curing oven.
§63.3965 (b) Measuring capture efficiency. See §63.3965(b) for further details.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. b. Testing Requirements for Subpart MMMM (Continued)

§63.3966 ***Determination of the add-on control device emission destruction or removal efficiency.*** The procedures and test methods in this section must be used to determine the add-on control device emission destruction or removal efficiency as part of the performance test required by §63.3960. Three test runs must be conducted as specified in §63.7(e)(3) and each test run must last at least 1 hour.

§63.3966 (a) For all types of add-on control devices, use the test methods specified in paragraphs (a)(1) through (5) of this section.

(1) Use Method 1 or 1A of appendix A to 40 CFR part 60, as appropriate, to select sampling sites and velocity traverse points.

(2) Use Method 2, 2A, 2C, 2D, 2F, or 2G of appendix A to 40 CFR part 60, as appropriate, to measure gas volumetric flow rate.

(3) Use Method 3, 3A, or 3B of appendix A to 40 CFR part 60, as appropriate, for gas analysis to determine dry molecular weight.

(4) Use Method 4 of appendix A to 40 CFR part 60, to determine stack gas moisture.

(5) Methods for determining gas volumetric flow rate, dry molecular weight, and stack gas moisture must be performed, as applicable, during each test run.

§63.3966 (b) Measure total gaseous organic mass emissions as carbon at the inlet and outlet of the add-on control device simultaneously, using either Method 25 or 25A of appendix A to 40 CFR part 60.

(1) Use Method 25 if the add-on control device is an oxidizer and it is expected that the total gaseous organic concentration as carbon to be more than 50 parts per million (ppm) at the control device outlet.

(2) Use Method 25A if the add-on control device is an oxidizer and it is expected that the total gaseous organic concentration as carbon to be 50 ppm or less at the control device outlet.

§63.3966 (d) For each test run, determine the total gaseous organic emissions mass flow rates for the inlet and the outlet of the add-on control device, using Equation 1 of this section. If there is more than one inlet or outlet to the add-on control device, the total gaseous organic mass flow rate must be calculated using Equation 1 of this section for each inlet and each outlet and then total all of the inlet emissions and total all of the outlet emissions:

$$M_f = Q_{sd} C_c (12)(0.0416)(10^{-6}) \quad (Eq.1)$$

Where:

M_f = Total gaseous organic emissions mass flow rate, kg per hour (h).

C_c = Concentration of organic compounds as carbon in the vent gas, as determined by Method 25 or Method 25A, parts per million by volume (ppmv), dry basis.

Q_{sd} = Volumetric flow rate of gases entering or exiting the add-on control device, as determined by Method 2, 2A, 2C, 2D, 2F, or 2G, dry standard cubic meters/hour (dscm/h).

0.0416 = Conversion factor for molar volume, kg-moles per cubic meter (mol/m^3) @ 293 Kelvin (K) and 760 millimeters of mercury (mmHg).

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. b. Testing Requirements for Subpart MMMM (Continued)

§63.3966 (e) For each test run, determine the add-on control device organic emissions destruction or removal efficiency, using Equation 2 of this section:

$$DRE = \frac{M_{f_i} - M_{fo}}{M_{f_i}} x\,100 \quad (Eq.2)$$

Where:

DRE = Organic emissions destruction or removal efficiency of the add-on control device, percent.

M_{fi} = Total gaseous organic emissions mass flow rate at the inlet(s) to the add-on control device, using Equation 1 of this section, kg/h.

M_{fo} = Total gaseous organic emissions mass flow rate at the outlet(s) of the add-on control device, using Equation 1 of this section, kg/h.

§63.3966 (f) Determine the emission destruction or removal efficiency of the add-on control device as the average of the efficiencies determined in the three test runs and calculated in Equation 2 of this section.

§63.3967 ***Establish the emission capture system and add-on control device operating limits during the performance test.*** During the performance test required by §63.3960 and described in §§63.3964, 63.3965, and 63.3966, the operating limits required by §63.3892 must be established according to this section, unless approval is received for alternative monitoring and operating limits under §63.8(f) as specified in §63.3892.

§63.3967 (a) *Thermal oxidizers.* If the add-on control device is a thermal oxidizer, establish the operating limits according to paragraphs (a)(1) and (2) of this section.

(1) During the performance test, the combustion temperature must be monitored and recorded at least once every 15 minutes during each of the three test runs. The temperature must be monitored in the firebox of the thermal oxidizer or immediately downstream of the firebox before any substantial heat exchange occurs.

(2) Use the data collected during the performance test to calculate and record the average combustion temperature maintained during the performance test. This average combustion temperature is the minimum operating limit for the thermal oxidizer.

§63.3967 (f) *Emission capture systems.* For each capture device that is not part of a PTE that meets the criteria of §63.3965(a), establish an operating limit for either the gas volumetric flow rate or duct static pressure, as specified in paragraphs (f)(1) and (2) of this section. The operating limit for a PTE is specified in Table 1 of Subpart MMMM.

(1) During the capture efficiency determination required by §63.3960 and described in §§ 63.3964 and 63.3965, the gas volumetric flow rate or the duct static pressure must be monitored and recorded for each separate capture device in the emission capture system at least once every 15 minutes during each of the three test runs at a point in the duct between the capture device and the add-on control device inlet.

(2) Calculate and record the average gas volumetric flow rate or duct static pressure for the three test runs for each capture device. This average gas volumetric flow rate or duct static pressure is the minimum operating limit for that specific capture device.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. c. Monitoring Requirements for Subpart MMMM

§63.3968 ***Requirements for continuous parameter monitoring system installation, operation, and maintenance.***
§63.3968 (a) *General* Each CPMS specified in paragraphs (c), (e), (f), and (g) of this section must be installed, operated, and maintained according to paragraphs (a)(1) through (6) of this section. Each CPMS specified in paragraphs (b) and (d) of this section must be installed, operated, and maintained according to paragraphs (a)(3) through (5) of this section.
(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. There must be a minimum of four equally spaced successive cycles of CPMS device operation in 1 hour.
(2) The average of all recording readings must be determined for each successive 3-hour period of the emission capture system and add-on control device operation.
(3) Results of each inspection, calibration, and validation check of the CPMS must be recorded.
(4) The CPMS must be maintained and the necessary parts for routine repairs of the monitoring equipment should be available at all times.
(5) The operation of the CPMS and the collection of emission capture system and add-on control device parameter data must occur at all times that a controlled coating operation is operating, except during monitoring malfunctions, associated repairs, and required quality assurance or control device activities (including, if applicable, calibration checks and required zero and span adjustments).
(6) Do not use emission capture system or add-on control device parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. The data collected during all other periods must be used in calculating the data averages for determining compliance with the emission capture system and add-on control device operating limits.
(7) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the CPMS to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. Any period for which the monitoring system is out-of-control and data are not available for required calculations is a deviation from the monitoring requirements.

§63.3968 (b) *Capture system bypass line.* The requirements of paragraphs (b)(1) and (2) of this section must be met for each emission capture system that contains bypass lines that could divert emissions away from the add-on control device to the atmosphere.
(1) The valve or closure mechanism controlling the bypass line must be secured in a nondiverting position in such a way that the valve or closure mechanism cannot be opened without creating a record that the valve was opened. The method used to monitor or secure the valve or closure mechanism must meet one of the requirements specified in paragraphs (b)(1)(i) through (v) of this section.
(i) *Flow control position indicator*. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. The time of occurrence and flow control position must be recorded, as well as every time the flow direction is changed. The flow control position indicator must be installed at the entrance to any bypass line that could divert the emissions away from the add-on control device to the atmosphere.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. c. Monitoring Requirements for Subpart MMMM (Continued)

(ii) *Car-seal or lock-and-key valve closures*. Secure any bypass line valve in the closed position with a car-seal or a lock-and-key type configuration. The seal or closure mechanism must be visually inspected at least once every month to ensure that the valve is maintained in the closed position, and the emissions are not diverted away from the add-on control device to the atmosphere.
(iii) *Valve closure monitoring.* Ensure that any bypass line valve is in the closed (nondiverting) position through monitoring of valve position at least once every 15 minutes. The monitoring system must be inspected at least once every month to verify that the monitor will indicate valve position.
(iv) *Automatic shutdown system*. Use an automatic shutdown system in which the coating operation is stopped when flow is diverted by the bypass line away from the add-on control device to the atmosphere when the coating operation is running. The automatic shutdown system must be inspected at least once every month to verify that it will detect diversions of flow and shut down the coating operation.
(v) *Flow direction indicator*. Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow direction indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. Each time the flow direction changes, the next reading of the time of occurrence and flow direction must be recorded. The flow direction indicator must be installed in each bypass line or air makeup supply line that could divert the emissions away from the add-on control device to the atmosphere.
(2) If any bypass line is opened, a description of why the bypass line was opened and the length of time it remained open must be included in the semiannual compliance reports required in §63.3920.

§63.3968 (c) *Thermal oxidizers*. Compliance with the requirements in paragraphs (c)(1) and (3) of this section is necessary if a thermal oxidizer is used as the add-on control device:
(1) For a thermal oxidizer, install a gas temperature monitor in the firebox of the thermal oxidizer or in the duct immediately downstream of the firebox before any substantial heat exchange occurs.
(3) For all thermal oxidizers, the requirements in paragraphs (a) and (c)(3)(i) through (v) of this section must be met for each gas temperature monitoring device.
(i) Locate the temperature sensor in a position that provides a representative temperature.
(ii) Use a temperature sensor with a measurement sensitivity of 5 degrees Fahrenheit or 1.0 percent of the temperature value, whichever is larger.
(iii) Before using the sensor for the first time or when relocating or replacing the sensor, perform a validation check by comparing the sensor output to a calibrated temperature measurement device or by comparing the sensor output to a simulated temperature.
(iv) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor output to redundant temperature sensors, to calibrated temperature measurement devices, or to temperature simulation devices.
(v) Conduct a visual inspection of each sensor every quarter if redundant temperature sensors are not used.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. c. Monitoring Requirements for Subpart MMMM (Continued)

§63.3968 (g) *Emission capture systems.* The capture system monitoring system must comply with the applicable requirements in paragraphs (g)(1) and (2) of this section.
(1) For each flow measurement device, the requirements in paragraphs (a) and (g)(1)(i) through (vii) of this section must be met.
(i) Locate a flow sensor in a position that provides a representative flow measurement in the duct from each capture device in the emission capture system to the add-on control device.
(ii) Use a flow sensor with an accuracy of at least 10 percent of the flow.
(iii) Perform an initial sensor calibration in accordance with the manufacturer's requirements.
(iv) Perform a validation check before initial use or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values with electronic signal simulations or via relative accuracy testing.
(v) Conduct an accuracy audit every quarter and after every deviation. Accuracy audit methods include comparisons of sensor values with electronic signal simulations or via relative accuracy testing.
(vi) Perform leak checks monthly.
(vii) Perform visual inspections of the sensor system quarterly if there is no redundant sensor.
(2) For each pressure drop measurement device, the requirements in paragraphs (a) and (g)(2)(i) through (vii) of this section must be met.
(i) Locate the pressure sensor(s) in or as close to a position that provides a representative measurement of the pressure drop across each opening that is being monitored.
(ii) Use a pressure sensor with an accuracy of at least 0.5 inches of water column or 5 percent of the measured value, whichever is larger.
(iii) Perform an initial calibration of the sensor according to the manufacturer's requirements.
(iv) Conduct a validation check before initial operation or upon relocation or replacement of a sensor. Validation checks include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.
(v) Conduct accuracy audits every quarter and after every deviation. Accuracy audits include comparison of sensor values to calibrated pressure measurement devices or to pressure simulation using calibrated pressure sources.
(vi) Perform monthly leak checks on pressure connections. A pressure of at least 1.0 inches of water column to the connection must yield a stable sensor result for a least 15 seconds.
(vii) Perform a visual inspection of the sensor at least monthly if there is no redundant sensor.

3. d. General Requirements for Compliance with Subpart MMMM

§63.3900 ***General requirements for compliance with Subpart MMMM*.**
§63.3900(a) The facility must be in compliance with the emission limitations in Subpart MMMM as specified in paragraphs (a)(1) and (2) of this section.
(1) Any coating operation(s) for which the compliant material option or the emission rate without add-on controls option is used, as specified in § 63.3891(a) and (b), must be in compliance with the applicable emission limit in §63.3890 at all times.
(2) Any coating operation(s) for which the emission rate with add-on controls option is used, as specified in §63.3891(c), must be in compliance with the emission limitations as specified in paragraphs (a)(2)(i) through (iii) of this section.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. d. General Requirements for Subpart MMMM (Continued)

(i) The coating operation(s) must be in compliance with the applicable emission limit in §63.3890 at all times except during periods of startup, shutdown, and malfunction.
(ii) The coating operation(s) must be in compliance with the operating limits for emission capture systems and add-on control devices required by §63.3892 at all times except during periods of startup, shutdown, and malfunction, and except for solvent recovery systems for which a liquid-liquid material balance is conducted according to §63.3961(j).
(iii) The coating operation(s) must be in compliance with the work practice standards in §63.3893 at all times.

§63.3900(b) The operation and maintenance of the affected source, including all air pollution control and monitoring equipment used for the purposes of complying with Subpart MMMM, must be done according to the provisions in §63.6(e)(1)(i).
§63.3900(c) Affected sources that use an emission capture system and add-on control device must develop and implement a written startup, shutdown, and malfunction plan according to the provisions in §63.6(e)(3). The plan must address the startup, shutdown, and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The plan must also address any coating operation equipment that may cause increased emissions or that would affect capture efficiency if the process equipment malfunctions, such as conveyors that move parts among enclosures.

§63.3901 Table 2 of Subpart MMMM shows the parts of the General Provisions in §§63.1 through 63.15, which apply to the affected source.

§63.3910 (c) *Notification of compliance status*. The notification of compliance status required by §63.9(h) must be submitted no later than 30 calendar days following the end of the initial compliance period described in §§ 63.3940, 63.3950, or 63.3960 that applies to the affected source. The notification of compliance status must contain the information specified in paragraphs (c)(1) through (11) of this section and in §63.9(h).
(1) Company name and address.
(2) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
(3) Date of the report and beginning and ending dates of the reporting period. The reporting period is the initial compliance period described in §§ 63.3940, 63.3950, or 63.3960 that applies to the affected source.
(4) Identification of the compliance option or options specified in §63.3891 that were used on each coating operation in the affected source during the initial compliance period.
(5) Statement of whether or not the affected source achieved the emission limitations for the initial compliance period.
(6) If a deviation occurred, include the information in paragraphs (c)(6)(i) and (ii) of this section.
(i) A description and statement of the cause of the deviation.
(ii) If the applicable emission limit in §63.3890 was not met, include all the calculations used to determine the kg (lb) of organic HAP emitted per liter (gal) coating solids used. It is not necessary to submit information provided by the material's suppliers or manufacturers, or test reports.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. d. General Requirements for Subpart MMMM (Continued)

(7) For each of the data items listed in paragraphs (c)(7)(i) through (iv) of this section that is required by the compliance option(s) used) to demonstrate compliance with the emission limit, include an example of how you determined the value, including calculations and supporting data. Supporting data may include a copy of the information provided by the supplier or manufacturer of the example coating or material, or a summary of the results of testing conducted according to §63.3941(a), (b), or (c). It is not necessary to submit copies of any test reports.
(i) Mass fraction of organic HAP for one coating, for one thinner and/or other additive, and for one cleaning material.
(ii) Volume fraction of coating solids for one coating.
(iii) Density for one coating, one thinner and/or other additive, and one cleaning material, except that if the compliant material option is used, only the example coating density is required.
(iv) The amount of waste materials and the mass of organic HAP contained in the waste materials for which you are claiming an allowance in Equation 1 of §63.3951.
(8) The calculation of kg (lb) of organic HAP emitted per liter (gal) coating solids used for the compliance option(s) used as specified in paragraphs (c)(8)(i) through (iii) of this section.
(i) For the compliant material option, provide an example calculation of the organic HAP content for one coating, using Equation 2 of § 63.3941.
(ii) For the emission rate without add-on controls option, provide the calculation of the total mass of organic HAP emissions for each month; the calculation of the total volume of coating solids used each month; and the calculation of the 12-month organic HAP emission rate using Equations 1 and 1A through 1C, 2, and 3, respectively, of §63.3951.
(iii) For the emission rate with add-on controls option, provide the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month, using Equations 1 and 1A through 1C of §63.3951; the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961 and Equations 2, 3, and 3A through 3C of §63.3961 as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.3961; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.3961.
(9) For the emission rate with add-on controls option, the information specified in paragraphs (c)(9)(i) through (iv) of this section must be included, except that the requirements in paragraphs (c)(9)(i) through (iii) of this section do not apply to solvent recovery systems for which a liquid-liquid material balance is conducted according to §63.3961(j).
(i) For each emission capture system, a summary of the data and copies of the calculations supporting the determination that the emission capture system is a permanent total enclosure (PTE) or a measurement of the emission capture system efficiency. See §63.3910(c)(9)(i) for further details.
(ii) A summary of the results of each add-on control device performance test. It is not necessary to submit complete test reports.
(iii) A list of each emission capture system and add-on control device operating limits and a summary of the data used to calculate those limits.
(iv) A statement of whether or not a work practice plan was developed and implemented as required by §63.3893.
See §§63.3910(c)(10) and 63.3910(c)(11) for further details.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. e. Specific Reporting Requirements for Subpart MMMM

§63.3920 (a) ***Semiannual compliance reports.*** See §§63.3920 (a)(1) and (2) for further details.
§63.3920 (a) (3) General Requirements
The semiannual compliance report must contain the information specified in paragraphs (a)(3(i) through (vii) of this section, and the information specified in paragraphs (a)(4) and (7) and (c)(1) of this section that is applicable to the affected source. (*Note: only those reporting requirements specific to compliance by add-on controls are listed for brevity*)
(i) Company name and address.
(ii) Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
(iii) Date of report and beginning and ending dates of the reporting period. The reporting period is the 6-month period ending on June 30 or December 31. Note that the information reported for each of the 6 months in the reporting period will be based on the last 12 months of data prior to the date of each monthly calculation.
(iv) Identification of the compliance option or options specified in §63.3891 that were used on each coating operation during the reporting period. If there was a switch between compliance options during the reporting period, the beginning and ending dates of each option used must be reported.
(v) If the emission rate without add-on controls or the emission rate with add-on controls compliance option (§ 63.3891(b) or (c)) was used, the calculation results for each rolling 12-month organic HAP emission rate during the 6-month reporting period.
§63.3920 (a) (4) No deviations. If there were no deviations from the emission limitations in §§63.3890, 63.3892, and 63.3893 that apply to the affected source, the semiannual compliance report must include a statement that there were no deviations from the emission limitations during the reporting period. If the emission rate with add-on controls option was used and there were no periods during which continuous parameter monitoring systems (CPMS) were out-of-control as specified in §63.8(c)(7), the semiannual compliance report must include a statement that there were no periods during which the CPMS were out-of-control during the reporting period.
§63.3920 (a) (5) Deviations: Compliant material option. If the compliant material option was used and there was a deviation from the applicable organic HAP content requirements in § 63.3890, the semiannual compliance report must contain the information in paragraphs (a)(5)(i) through (iv) of this section.
(i) Identification of each coating used that deviated from the applicable emission limit, and each thinner and/or other additive, and cleaning material used that contained organic HAP, and the dates and time periods each was used.
(ii) The calculation of the organic HAP content (using Equation 2 of § 63.3941) for each coating identified in paragraph (a)(5)(i) of this section. It is not necessary to submit background data supporting this calculation (*e.g.*, information provided by coating suppliers or manufacturers, or test reports).
(iii) The determination of mass fraction of organic HAP for each thinner and/or other additive, and cleaning material identified in paragraph (a)(5)(i) of this section. It is not necessary to submit background data supporting this calculation (*e.g.*, information provided by material suppliers or manufacturers, or test reports).
(iv) A statement of the cause of each deviation.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. e. Specific Reporting Requirements for Subpart MMMM (Continued)

§63.3920 (a) (6) Deviations: Emission rate without add-on controls option. If the emission rate without add-on controls option was used and there was a deviation from the applicable emission limit in § 63.3890, the semiannual compliance report must contain the information in paragraphs (a)(6)(i) through (iii) of this section.

(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.3890.
(ii) The calculations used to determine the 12-month organic HAP emission rate for the compliance period in which the deviation occurred. The calculations for Equations 1, 1A through 1C, 2, and 3 of §63.3951 must be submitted; and if applicable, the calculations used to determine mass of organic HAP in waste materials according to § 63.3951(e)(4). It is not necessary to submit background data supporting these calculations (*e.g.*, information provided by materials suppliers or manufacturers, or test reports).
(iii) A statement of the cause of each deviation.
§63.3920 (a) (7) Deviations: Emission rate with add-on controls option.
If the emission rate with add-on controls option was used and there was a deviation from an emission limitation (including any periods when emissions bypassed the add-on control device and were diverted to the atmosphere), the semiannual compliance report must contain the information in paragraphs (a)(7)(i) through (xiv) of this section. This includes periods of startup, shutdown, and malfunction during which deviations occurred.
(i) The beginning and ending dates of each compliance period during which the 12-month organic HAP emission rate exceeded the applicable emission limit in §63.3890.
(ii) The calculations used to determine the 12-month organic HAP emission rate for each compliance period in which a deviation occurred. The calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.3951; and if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of §63.3951; the calculation of the mass of organic HAP emission reduction each month by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961, and Equations 2, 3, and 3A through 3C of §63.3961, as applicable; the calculation of the total mass of organic HAP emissions each month using Equation 4 of §63.3961; and the calculation of the 12-month organic HAP emission rate using Equation 5 of §63.3961 must be provided. It is not necessary to submit the background data supporting these calculations (*e.g.*, information provided by materials suppliers or manufacturers, or test reports).
(iii) The date and time that each malfunction started and stopped.
(iv) A brief description of the CPMS.
(v) The date of the latest CPMS certification or audit.
(vi) The date and time that each CPMS was inoperative, except for zero (low-level) and high-level checks.
(vii) The date, time, and duration that each CPMS was out-of-control, including the information in §63.8(c)(8).
(viii) The date and time period of each deviation from an operating limit in Table 1 to this subpart; date and time period of any bypass of the add-on control device; and whether each deviation occurred during a period of startup, shutdown, or malfunction or during another period.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. e. Specific Reporting Requirements for Subpart MMMM (Continued)

(ix) A summary of the total duration of each deviation from an operating limit in Table 1 to this subpart and each bypass of the add-on control device during the semiannual reporting period, and the total duration as a percent of the total source operating time during that semiannual reporting period.
(x) A breakdown of the total duration of the deviations from the operating limits in Table 1 of this subpart and bypasses of the add-on control device during the semiannual reporting period into those that were due to startup, shutdown, control equipment problems, process problems, other known causes, and other unknown causes.
(xi) A summary of the total duration of CPMS downtime during the semiannual reporting period and the total duration of CPMS downtime as a percent of the total source operating time during that semiannual reporting period.
(xii) A description of any changes in the CPMS, coating operation, emission capture system, or add-on control device since the last semiannual reporting period.
(xiii) For each deviation from the work practice standards, a description of the deviation, the date and time period of the deviation, and the actions taken to correct the deviation.
(xiv) A statement of the cause of each deviation.
§63.3920 (b) Performance test reports. If the emission rate with add-on controls option is used, reports of performance test results for emission capture systems and add-on control devices must be submitted no later than 60 days after completing the tests as specified in §63.10(d)(2).
§63.3920 (c) Startup shutdown, malfunction reports. If the emission rate with add-on controls option was used and a startup, shutdown, or malfunction occurred during the semiannual reporting period, the reports specified in paragraphs (c)(1) and (2) of this section must be submitted.
(1) If the actions taken were consistent with the startup, shutdown, and malfunction plan, the information specified in §63.10(d) must be included in the semiannual compliance report required by paragraph (a) of this section.
(2) If the actions taken were not consistent with the startup, shutdown, and malfunction plan, an immediate startup, shutdown, and malfunction report as described in paragraphs (c)(2)(i) and (ii) of this section must be submitted.
(i) The actions taken during the event must be described in a report delivered by facsimile, telephone, or other means to the Division within 2 working days after starting actions that are inconsistent with the plan.
(ii) A letter must be submitted to the Division within 7 working days after the end of the event, unless alternative arrangements have been made with the Division as specified in §63.10(d)(5)(ii). The letter must contain the information specified in §63.10(d)(5)(ii).

3. f. Specific Record Keeping Requirements for Subpart MMMM

§63.3930 Record Keeping Requirements The facility must collect the data and information specified in this section. Records of this data and information must be kept. Failure to collect and keep these records is a deviation from the applicable standard.
§63.3930 (a) A copy of each notification and report that were submitted to comply with Subpart MMMM, and the documentation supporting each notification and report. See §63.3930 (a) for further details.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. f. Specific Record Keeping Requirements for Subpart MMMM (Continued)

§63.3930 (b) A current copy of information provided by materials suppliers or manufacturers, such as manufacturer's formulation data, or test data used to determine the mass fraction of organic HAP and density for each coating, thinner and/or other additive, and cleaning material, and the volume fraction of coating solids for each coating. If testing was conducted to determine mass fraction of organic HAP, density, or volume fraction of coating solids, a copy of the complete test report must be kept. If information provided by the manufacturer or supplier of the material that is based on testing is used, a summary sheet of the results provided by the manufacturer or supplier must be kept. It is not necessary to obtain the test report or other supporting documentation from the manufacturer or supplier.

§63.3930 (c) For each compliance period, the records specified in paragraphs (c)(1) through (4) of this section.

(1) A record of the coating operations on which each compliance option was used and the time periods (beginning and ending dates and times) for each option used.

(2) For the compliant material option, a record of the calculation of the organic HAP content for each coating, using Equation 2 of § 63.3941.

(3) For the emission rate without add-on controls option, a record of the calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1, 1A through 1C, and 2 of § 63.3951; and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to § 63.3951(e)(4); the calculation of the total volume of coating solids used each month using Equation 2 of § 63.3951; and the calculation of each 12-month organic HAP emission rate using Equation 3 of § 63.3951.

(4) For the emission rate with add-on controls option, records of the calculation specified in paragraphs (c)(4)(i) through (v) of this section.

(i) The calculation of the total mass of organic HAP emissions for the coatings, thinners and/or other additives, and cleaning materials used each month using Equations 1 and 1A through 1C of §63.3951 and, if applicable, the calculation used to determine mass of organic HAP in waste materials according to §63.3951(e)(4);

(ii) The calculation of the total volume of coating solids used each month using Equation 2 of §63.3951;

(iii) The calculation of the mass of organic HAP emission reduction by emission capture systems and add-on control devices using Equations 1 and 1A through 1D of §63.3961 and Equations 2, 3, and 3A through 3C of §63.3961, as applicable;

(iv) The calculation of each month's organic HAP emission rate using Equation 4 of §63.3961; and

(v) The calculation of each 12-month organic HAP emission rate using Equation 5 of §63.3961.

§63.3930 (d) A record of the name and volume of each coating, thinner and/or other additive, and cleaning material used during each compliance period. If the compliant material option is being used for all coatings at the source, purchase records for the materials may be maintained rather than a record of the volume used.

§63.3930 (e) A record of the mass fraction of organic HAP for each coating, thinner and/or other additive, and cleaning material used during each compliance period unless the material is tracked by weight.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

3. f. Specific Record Keeping Requirements for Subpart MMMM (Continued)

§63.3930 (f) A record of the volume fraction of coating solids for each coating used during each compliance period.
§63.3930 (g) If either the emission rate without add-on controls or emission rate with add-on controls compliance option is used, a record of the density for each coating, thinner and/or other additive, and cleaning material used during each compliance period.
§63.3930 (h) Refer to this section if an allowance in Equation 1 of §63.3951 for organic HAP contained in waste materials sent to or designated for shipment to a treatment, storage, and disposal facility (TSDF) according to §63.3951(e)(4) is used.
§63.3930 (j) Records of the date, time, and duration of each deviation must be kept.
§63.3930 (k) If the emission rate with add-on controls option is used, the records specified in paragraphs (k)(1) through (8) of this section must be kept.
(1) For each deviation, a record of whether the deviation occurred during a period of startup, shutdown, or malfunction.
(2) The records in §63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
(3) The records required to show continuous compliance with each operating limit specified in Table 1 of Subpart MMMM that applies.
(4) For each capture system that is a PTE, the data and documentation that was used to support a determination that the capture system meets the criteria in Method 204 of appendix M to 40 CFR part 51 for a PTE and has a capture efficiency of 100 percent, as specified in §63.3965(a).
(5) Refer to this section for requirements for capture systems that are not a PTE.
(6) The records specified in paragraphs (k)(6)(i) and (ii) of this section for each add-on control device organic HAP destruction or removal efficiency determination as specified in §63.3966.
(i) Records of each add-on control device performance test conducted according to §§63.3964 and 63.3966.
(ii) Records of the coating operation conditions during the add-on control device performance test showing that the performance test was conducted under representative operating conditions.
(7) Records of the data and calculations used to establish the emission capture and add-on control device operating limits as specified in §63.3967 and to document compliance with the operating limits as specified in Table 1 of Subpart MMMM.
(8) A record of the work practice plan required by §63.3893 and documentation that the plan is being implementing on a continuous basis.
§63.3931
(a) Records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). Where appropriate, the records may be maintained as electronic spreadsheets or as a database.
(b) As specified in §63.10(b)(1), each record must be kept for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.
(c) Each record must be kept on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record according to §63.10(b)(1). The records may be kept off-site for the remaining 3 years.

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

4. Synthetic Minor Limit for Volatile Organic Compound (VOC) Emissions

VOC emissions shall not exceed 249 tons during any consecutive twelve (12) month period. Monthly records to demonstrate compliance with this limitation shall be maintained and total VOC emissions shall be reported on a semi-annual basis. VOC emissions shall be calculated and recorded on a *monthly* basis. These records shall be summarized in tons per month of VOC emissions; subsequently, tons of VOC emissions per rolling 12-month period shall be recorded. In addition, these records shall demonstrate compliance with the VOC emission limitation listed herein for the synthetic minor limitation. These records shall be maintained on site for a period of five years from the date the data was collected and shall be provided to the Division upon request.

If total VOC emissions during any twelve-month period exceed 225 tons, the permittee will begin tracking annual emissions on a weekly basis beginning the following calendar month. Emissions will be tracked in this manner for three consecutive months, and monthly reports shall be submitted to the Frankfort Regional Office. If the rolling twelve-month totals remain less than 225 tons for three consecutive months, the permittee may return to monthly tracking and semi-annual reporting until such time as emissions may again exceed 225 tons for a rolling twelve-month total.

Note: weekly tracking will be accomplished by recalculating each of the applicable month's emissions from the prior year from a monthly total to weekly totals, and compared with the weekly totals from the same week of the current year. For the purposes of this tracking, each month shall be broken down into 4 weeks as follows:

Week 1. Day 1 thru day 7
Week 2. Day 8 thru day 14
Week 3. Day 15 thru day 21
Week 4. Day 22 thru day 31

Compliance Demonstration Method:
For VOC:

VOC emitted (lbs/month) = $\sum$ [VOC emissions from paints, thinners and cleaning solvents]

$E_{VOC} = \sum [Q*C_{VOC}]$

Where:
E_{VOC} = Total VOC emissions (lb/month)
Q = Usage rate of material (gal/month)
C_{VOC} = VOC content of material (lb/gal)
VOC content of material as applied (C_{VOC}) is obtained from the manufacturer's technical specification sheet and coating to thinner mix ratio data.

VOC emitted from natural gas combustion (boilers and cure ovens):
VOC emitted (lbs/month) = (5.5 lb/MMSCF) x (MMSCF natural gas burned/month)

Source-wide VOC emissions = $\sum$ [VOC emissions from paints, thinners and cleaning solvents] + $\sum$ [VOC emissions from natural gas combustion]

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS (CONTINUED)

5. Potentially hazardous matter or toxic substances

As required by 401 KAR 63:020, § 3, no owner or operator shall allow any affected facility to emit potentially hazardous matter or toxic substances in such quantities or duration as to be harmful to the health and welfare of humans, animals and plants. Evaluation of such facilities as to adequacy of controls and/or procedures and emission potential will be made on an individual basis by the Cabinet.

Compliance Demonstration Method:

An air dispersion model protocol for potentially hazardous matter and toxic substance emissions (air toxics, including gaseous fluorides) and for facilities listed in Section B and Section C of this permit shall be submitted within 60 days of the issuance of this final permit. Those facilities that do not emit potentially hazardous matter or toxic substances need not be included in the air dispersion model. The facility must explicitly identify which facilities will be included in the air dispersion model. Upon approval of the protocol, the source shall model the air toxics emissions as indicated in the protocol. The source shall submit the results of the air modeling to the Division, whereupon the emissions of toxics shall be evaluated to determine the compliance status with 401 KAR 63:020.

The compliance determination is based on the potential to emit emission rates of toxics (e.g., xylene) given in the application submitted by the source. If additional HAPs are identified that were not present in the application, the potential to emit emission rates of those HAPs shall also be included in the air dispersion model.

If the source alters parameters that will result in increased or additional impacts from toxic(s) emissions not previously evaluated by the Division, the source shall submit the appropriate application forms pursuant to 401 KAR 52:020, along with modeling to show that the facility will remain in compliance with 401 KAR 63:020. These parameters include process rates, material formulations, stack locations, stack parameters (e.g., height, diameter, flow rate and temperature), or any other factor that will result in increased or additional impacts from toxic(s) emissions.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS

1. Pursuant to Section 1b (IV)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26, when continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
    a. Date, place as defined in this permit, and time of sampling or measurements;
    b. Analyses performance dates;
    c. Company or entity that performed analyses;
    d. Analytical techniques or methods used;
    e. Analyses results; and
    f. Operating conditions during time of sampling or measurement.

2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Sections 1b(IV) 2 and 1a(8) of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
    a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
    b. To access and copy any records required by the permit:
    c. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.

    Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.

4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.

5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Section 1b (V)1 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.

7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
    a. When emissions during any planned shutdowns and ensuing startups will exceed the standards, notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
    b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall be submitted in writing upon request.

8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within *30 days*. Other deviations from permit requirements shall *be included in the semiannual report required by Section F.6* [Section 1b (V) 3, 4. of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall annually certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
    a. Identification of the term or condition;
    b. Compliance status of each term or condition of the permit;
    c. Whether compliance was continuous or intermittent;
    d. The method used for determining the compliance status for the source, currently and over the reporting period.
    e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Frankfort Regional Office
643 Teton Trail, STE B
Frankfort, KY 40601-1758

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the Division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.

11. Results of performance test(s) required by the permit shall be submitted to the Division by the source or its representative within forty-five days or sooner if required by an applicable standard, after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including but not limited to termination, revocation and reissuance, revision or denial of a permit [Section 1a, 3 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020 Section 26].

2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Section 1a, 6 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
   a. If additional applicable requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
   b. The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
   c. The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;

   Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the Division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request of the Cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or to determine compliance with the conditions of this permit [Section 1a, 7,8 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [401 KAR 52:020, Section 7(1)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Section 1a, 14 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Section 1a, 4 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Section 1a, 15 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Section 1a, 10 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].

11. This permit does not convey property rights or exclusive privileges [Section 1a, 9 of the *Cabinet Provisions and Procedures for Issuing Title V Permits* incorporated by reference in 401 KAR 52:020, Section 26].

12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Environmental and Public Protection or any other federal, state, or local agency.

13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].

14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].

15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic Minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.

SECTION G - GENERAL PROVISIONS (CONTINUED)

16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of issuance. Compliance with the conditions of a permit shall be considered compliance with:
    a. Applicable requirements that are included and specifically identified in the permit and
    b. Non-applicable requirements expressly identified in this permit.

17. Pursuant to 401 KAR 50:045, Section 2, a source required to conduct a performance test shall submit a completed Compliance Test Protocol form, DEP form 6028, or a test protocol a source has developed for submission to other regulatory agencies, in a format approved by the cabinet, to the Division's Frankfort Central Office a minimum of sixty (60) days prior to the scheduled test date. Pursuant to 401 KAR 50:045, Section 7, the Division shall be notified of the actual test date at least Thirty (30) days prior to the test.

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the Division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the Division [401 KAR 52:020, Section 12].

2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the Division after the completeness determination has been made on any application, by whatever deadline the Division sets [401 KAR 52:020 Section 8(2)].

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).

2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(d) Construction, Start-Up, and Initial Compliance Demonstration Requirements
None

(e) Acid Rain Program Requirements

1. If an applicable requirement of Federal Statute 42 USC 7401 through 7671q (the Clean Air Act) is more stringent than an applicable requirement promulgated pursuant to Federal Statute 42 USC 7651 through 7651o (Title IV of the Act), both provisions shall apply, and both shall be state and federally enforceable.

(f) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
   a. An emergency occurred and the permittee can identify the cause of the emergency;
   b. The permitted facility was at the time being properly operated;
   c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
   d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations were exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
   e. This requirement does not relieve the source of other local, state or federal notification requirements.

2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].

3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

(g) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

   RMP Reporting Center
   P.O. Box 1515
   Lanham-Seabrook, MD 20703-1515.

2. If requested, submit additional relevant information to the Division or the U.S. EPA.

(h) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
   a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.
   b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
   c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
   d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
   e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
   f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, *Servicing of Motor Vehicle Air Conditioners*.

SECTION H - ALTERNATE OPERATING SCENARIOS

None

SECTION I - COMPLIANCE SCHEDULE

N/A